

z/OS



MVS Data Areas, Volume 3 (ITV - RCWK)

z/OS



MVS Data Areas, Volume 3 (ITV - RCWK)

Note

Before using this information and the product it supports, be sure to read the general information under "Notices" on page 1233.

Fourth Edition, September 2002

This is a major revision of GA22-7583-02.

This edition applies to Version 1, Release 4 of z/OS (5694-001) and Version 1, Release 4 of z/OS.e (5655-G52), and to all subsequent releases and modifications until otherwise indicated in new editions.

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About this document

This document provides graphic presentations of many data areas used by the z/OS operating system and by application programs. This document provides the data areas that are one or more of the following:

- Programming interfaces
- Needed for debugging or diagnosis.

This document supports z/OS (5694-A01) and z/OS.e (5655-G52).

For the latest information updates that have been provided in PTF cover letters and Documentation APARS for z/OS and z/OS.e, see the online document at:

<http://www.s390.ibm.com:80/bookmgr-cgi/bookmgr.cmd/BOOKS/ZIDOCMST/CCONTENTS>

Who should use this document

This document is for system programmers who diagnose and debug operating system and programming problems. It provides information for debugging installation-provided programs or diagnosing IBM-provided programs. The user of this publication should have a working knowledge of the functions and logic of the operating system.

How to use this document

Data areas are sequenced alphanumerically by data area acronym. Each data area has up to four sections:

- Programming Interface Information
- Header
- Data area map
- Cross-reference, if the data area map is long enough

There are five volumes of *Data Areas*. The following list shows the range of data areas included in each volume:

| | |
|---|-----------|
| <i>z/OS MVS Data Areas, Vol 1 (ABEP-DALT)</i> | GA22-7581 |
| <i>z/OS MVS Data Areas, Vol 2 (DCCB-ITZYRETC)</i> | GA22-7582 |
| <i>z/OS MVS Data Areas, Vol 3 (IVT-RCWK)</i> | GA22-7583 |
| <i>z/OS MVS Data Areas, Vol 4 (RD-SRRA)</i> | GA22-7584 |
| <i>z/OS MVS Data Areas, Vol 5 (SSAG-XTLST)</i> | GA22-7585 |

The header

The header includes some or all of the following:

| | | | | | | | |
|----------------------------|--|----------------------|--|-------------------------|--|---------------------------|--|
| Common Name: | The descriptive name of the data area. | | | | | | |
| Macro ID: | The name of the mapping macro for the data area. Mapping macros can be issued in programs to generate a copy of the data area. | | | | | | |
| DSECT Name: | Name of the DSECT (dummy control section) created by the mapping macro. | | | | | | |
| Owning Component: | Component name and component identifier in parentheses. | | | | | | |
| Eye-Catcher ID: | Character string identifier of the eye-catcher (sometimes called the control block id) within the mapping macro. The offset and length of the eye-catcher are also included. | | | | | | |
| Storage Attributes: | The storage attributes of the data area, including the following: <table><tr><td>Main Storage:</td><td>Central storage attributes of the data area.</td></tr><tr><td>Virtual Storage:</td><td>Virtual storage attributes of the data area.</td></tr><tr><td>Auxiliary Storage:</td><td>Spool storage attributes of the data area.</td></tr></table> | Main Storage: | Central storage attributes of the data area. | Virtual Storage: | Virtual storage attributes of the data area. | Auxiliary Storage: | Spool storage attributes of the data area. |
| Main Storage: | Central storage attributes of the data area. | | | | | | |
| Virtual Storage: | Virtual storage attributes of the data area. | | | | | | |
| Auxiliary Storage: | Spool storage attributes of the data area. | | | | | | |

Subpool and Key: Subpool is the area of virtual storage that contains the data area. Key is the storage protect key for the storage represented by the data area.

Size: The size of the data area in decimal bytes.

Created by: Module, macro, or component whose use creates the data area.

Pointed to by: Registers or data area fields that contain the address of the data area.

Serialization: Method used to ensure that one user does not update a data area that is being updated or used by another user. The most common methods used for serialization are:

- Lock or locks
- ENQ and DEQ macros
- Compare and Swap (CS) instruction
- Disablement, which is disabling interruptions by setting bits in the program status word (PSW) of the program using the data area

Function: Brief description of the use of the data area.

Data area map

The data area is described field by field. These field descriptions are taken directly from the system code.

The following is an example of the field descriptions for the ANYAREA data area:

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|------------|----------------------------------|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 384 | ANYAREA | |
| 0 | (0) | CHARACTER | | ANYBEGIN | BEGINNING OF ANYAREA |
| 0 | (0) | CHARACTER | 4 | ANYACRO | ACRONYM IN EBCDIC 'ANY ' |
| 4 | (4) | ADDRESS | 4 | ANYADDR | ADDRESS OF NEXT ANYAREA ON QUEUE |

For each field in the data area, the data area map provides the following information:

Offsets The address of the field, shown in both decimal (DEC) and hexadecimal (HEX in parentheses), relative to the beginning of the data area.

Type The kind of program data defined for this field, as follows:

| Type | Description |
|-----------|-------------------------------------|
| ADDRESS | Address constant |
| BITSTRING | Bitstring constant |
| CHARACTER | Character value |
| DBL WORD | Double word boundary |
| FIXED | Arithmetic signed or unsigned value |
| HEX | Hexadecimal value |
| SIGNED | Arithmetic signed value |
| STRUCTURE | Level 1 control block name |
| UNSIGNED | Unsigned value |

Len Size of the field in decimal bytes.

Name (Dim) The name of the field, bit, or mask.

Bit or mask names are preceded by a description of bit position and value, as follows:

| | |
|-----------|--------------------------------------|
| 1... | Refers to bit 0. |
|11 | Refers to bits 6 and 7. |
| ...1 | Refers to bit 3. |
| 11.. 1111 | Refers to bits 0, 1, 4, 5, 6, and 7. |

Description A description of the purpose or meaning of the field, bit, or mask.

Cross reference

For each data area with more than 10 fields, the cross reference shows the following:

| | |
|-------------------|--|
| Name | The name of the field, bit, or mask. |
| Hex Offset | The hexadecimal offset of the field into the data area. For bits, the hexadecimal offset of the field containing the bit. |
| Hex Value | Values are shown only for bits, equates, and initialized character strings. For bits, the hexadecimal value shown implies the position of the bit in the field containing the bit. |

Bit ANYBIT in the following illustration shows how to use the hexadecimal value. In the Example, cross reference for the ANYBIT bit looks like this:

| Name | Hex Offset | Hex Value |
|-------------|-------------------|------------------|
| ANYBIT | F0 | 80 |

In the map of the data area, the ANYBIT bit appears like this:

| | | | | | |
|-----|------|-----------|---|---------|---------------------------------|
| 240 | (F0) | FIXED | 4 | ANYWORD | CONTROL WORD |
| 240 | (F0) | BITSTRING | 1 | ANYBYTE | FLAG BYTE |
| | | 1... | | ANYBIT | "X'80'" BIT ON MEANS THIS . . . |

X'F0' is the offset of field ANYWORD into the data area. ANYWORD is a 4-byte field, which contains a 1-byte field named ANYBYTE. Both ANYWORD and ANYBYTE have the same offset. The first bit in both fields is named ANYBIT. Ignoring the other bits in the field ANYBYTE, if the ANYBIT bit is on, the value of field ANYBYTE would be 1000 0000, which is equivalent to X'80'. This value (X'80') is shown both in the Description in the data area map and in the column of the cross reference.

Where to find more information

For complete titles and order numbers of the books for all products that are part of z/OS, see *z/OS Information Roadmap*.

Summary of changes

Summary of changes for GA22-7583-03 z/OS Version 1 Release 4

The document contains information previously presented in *z/OS MVS Data Areas*, GA22-7583-02, which supports z/OS Version 1 Release 3.

New information

The following data areas have been added:

- IWMCNTRL
- IXLYWOB
- IXLYWORB

This document contains terminology, maintenance and editorial changes.

Starting with z/OS V1R2, you may notice changes in the style and structure of some content in this document — for example, headings that use uppercase for the first letter of initial words only, and procedures that have a different look and format. The changes are ongoing improvements to the consistency and retrievability of information in our documents.

Summary of changes for GA22-7583-02 z/OS Version 1 Release 3

The document contains information previously presented in GA22-7583-01, which supports z/OS Version 1 Release 2.

New information

Information is added to indicate this document supports z/OS.e.

This document contains terminology, maintenance and editorial changes.

Summary of Changes for GA22-7583-01 z/OS Version 1 Release 2

The document contains information previously presented in GA22-7583-00, which supports z/OS Version 1 Release 1.

This document contains terminology, maintenance, and editorial changes.

Summary of changes for GA22-7530-00 z/OS Version 1 Release 1

The document contains information also presented in OS/390 Version 2 Release 10.

Data Areas Volume 3 (IVT - RCWK)

IVT Heading Information

Common Name: IPL VECTOR TABLE
Macro ID: IHAIVT
DSECT Name: IVT
Owning Component: Initial Program Load (SC1C9)
Eye-Catcher ID: IVT
 Offset: 0
 Length: 4
Storage Attributes: Subpool: 245
 Key: 0
 Residency: Above 16M line
Size: Can not exceed 4K
Created by: IEAIPLO0
Pointed to by: Register 1 on entry to each module
Serialization: None
Function: Provide communication between modules in the IPL component and a means of passing data to the NIP component.

IVT Map

| Offsets | | | | | |
|---------|------|------------|-----|------------|---------------------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 520 | IVT | IPL VECTOR TABLE |
| 0 | (0) | CHARACTER | 4 | IVTID | CONTROL BLOCK ID ('IVT ') |
| 4 | (4) | SIGNED | 4 | IVTLEN | LENGTH OF THE IVT |
| 8 | (8) | CHARACTER | 20 | IVTIPLD | FIELDS FORMERLY IN IPLDATA |
| 8 | (8) | CHARACTER | 6 | IVTDVSER | IPL UNIT - VOLUME SERIAL |
| 14 | (E) | CHARACTER | 5 | IVTDVTOC | - VTOC CCHHR |
| 19 | (13) | CHARACTER | 1 | IVTR00E | RESERVED |
| 20 | (14) | CHARACTER | 4 | IVTDNUCS | SYS1.NUCLEUS DS - START CCHH |
| 24 | (18) | CHARACTER | 4 | IVTDNUCE | - END CCHH |
| 28 | (1C) | CHARACTER | 4 | IVTSCHAN | I/O DEVICE SUBCHANNEL ADDRESS |
| 28 | (1C) | SIGNED | 2 | IVTR01C | RESERVED |
| 30 | (1E) | SIGNED | 2 | IVTSCHN | SUBCHANNEL NUMBER |
| 32 | (20) | CHARACTER | 4 | IVTDEVSZ | I/O DEVICE CHARACTERISTICS |
| 32 | (20) | SIGNED | 2 | IVTCYLDR | I/O DEVICE CYLINDERS ON VOLUME |
| 34 | (22) | SIGNED | 2 | IVTTRACK | I/O DEVICE TRACKS PER CYLINDER |
| 36 | (24) | CHARACTER | 8 | IVTWRKSP | BOUNDS OF THE IPL WORK SPACE |
| 36 | (24) | ADDRESS | 4 | IVTWSHI | ADDR OF END OF IPL WORK SPACE |
| 40 | (28) | ADDRESS | 4 | IVTWSLOW | ADDR OF START OF IPL WORK SPACE |

Comment

NOTE: ONCE PAGES HAVE BEEN TAKEN FROM THE IPL WORKSPACE AND BACKED BY REAL, THEY MUST NOT BE RETURNED TO THE IPL WORKSPACE. FURTHER, THEY MUST NOT BE RELEASED IN ANY FASHION UNTIL THEY ARE RELEASED IN NORMAL PROCESSING AT THE END OF IPL.

End of Comment

| | | | | | |
|----|------|-----------|---|----------|--|
| 44 | (2C) | CHARACTER | 8 | IVTWSBND | BOUNDS OF THE IPL WORK SPACE |
| 44 | (2C) | ADDRESS | 4 | IVTWSAVH | ADDR OF HIGH UNUSED BYTE IN THE IPL WORK SPACE |
| 44 | (2C) | ADDRESS | 4 | IVTWSALO | ALIAS FOR IVTWSAVH |
| 48 | (30) | ADDRESS | 4 | IVTWSAVL | ADDR OF LOW UNUSED BYTE IN THE IPL WORK SPACE |
| 48 | (30) | ADDRESS | 4 | IVTWSBLO | ALIAS FOR IVTWSAVL |
| 52 | (34) | ADDRESS | 4 | IVTRONS | READ/ONLY NUCLEUS START ADDRESS |
| 56 | (38) | ADDRESS | 4 | IVTRONE | READ/ONLY NUCLEUS END ADDRESS |
| 60 | (3C) | ADDRESS | 4 | IVTRWNS | READ/WRITE NUCLEUS START ADDRESS |
| 64 | (40) | ADDRESS | 4 | IVTRWNE | READ/WRITE NUCLEUS END ADDRESS |

IVT Map

| Offsets | | | | | |
|---------|------|------------|-----|------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 68 | (44) | ADDRESS | 4 | IVTERWNS | EXTENDED READ/WRITE NUCLEUS START ADDRESS |
| 72 | (48) | ADDRESS | 4 | IVTERWNE | EXTENDED READ/WRITE NUCLEUS END ADDRESS |
| 76 | (4C) | ADDRESS | 4 | IVTNP0AD | ADDRESS OF IEAVNIPO |
| 80 | (50) | SIGNED | 4 | IVTNP0NO | LENGTH OF IEAVNIPO AND IEAVNIPH COMBINED. |
| 84 | (54) | ADDRESS | 4 | IVTRPSA | ADDRESS OF ABSOLUTE PSA |
| 88 | (58) | ADDRESS | 4 | IVTASQA | ADDRESS OF INITIAL SQA |
| 92 | (5C) | SIGNED | 4 | IVTSQALN | LENGTH OF INITIAL SQA IN BYTES |
| 96 | (60) | ADDRESS | 4 | IVTAESQA | ADDRESS OF EXTENDED SQA |
| 100 | (64) | SIGNED | 4 | IVTESQAL | LENGTH OF EXTENDED SQA IN BYTES |
| 104 | (68) | ADDRESS | 4 | IVT245A | ADDRESS OF UNUSED 245 SPACE |
| 108 | (6C) | SIGNED | 4 | IVT245V | AMOUNT OF UNUSED 245 IN BYTES |
| 112 | (70) | ADDRESS | 4 | IVTE245A | ADDRESS OF UNUSED EXTENDED 245 SPACE |
| 116 | (74) | SIGNED | 4 | IVTE245V | AMOUNT OF UNUSED E245 IN BYTES |
| 120 | (78) | ADDRESS | 4 | IVT239A | ADDRESS OF UNUSED 239 SPACE |
| 124 | (7C) | SIGNED | 4 | IVT239V | AMOUNT OF UNUSED 239 IN BYTES |
| 128 | (80) | ADDRESS | 4 | IVTE239A | ADDRESS OF UNUSED EXTENDED 239 SPACE |
| 132 | (84) | SIGNED | 4 | IVTE239V | AMOUNT OF UNUSED E239 IN BYTES |
| 136 | (88) | ADDRESS | 4 | IVTALSQA | ADDRESS OF TEMPORARY LSQA |
| 140 | (8C) | SIGNED | 4 | IVTLSQLN | LENGTH OF TEMPORARY LSQA |
| 144 | (90) | ADDRESS | 4 | IVTELSQA | ADDRESS OF EXTENDED LSQA |
| 148 | (94) | SIGNED | 4 | IVTELSLN | LENGTH OF EXTENDED LSQA IN BYTES |
| 152 | (98) | ADDRESS | 4 | IVTSCPIN | ADDRESS OF SCPINFO RESPONSE |
| 156 | (9C) | ADDRESS | 4 | IVTTOPQ | ADDRESS OF ORIGINAL AVL Q |
| 160 | (A0) | BITSTRING | 4 | IVTFLAGS | IPL FLAG WORD |
| 160 | (A0) | CHARACTER | 1 | IVTFLGS1 | IVT Flags byte 1. |
| | | 1... | | IVTSVPRC | SERVICE PROCESSOR SUPPORTED@H1A |
| | | .1.. | | IVTSUNRF | SUPPRESS NO RECORD FOUND WAIT STATE |
| | | ..1. | | IVTNRF | NO RECORD FOUND |
| | | ...1 | | IVTSUUE | SUPPRESS UNIT EXCEPTION WAIT STATE. |
| | | 1... | | IVTUE | UNIT EXCEPTION OCCURRED |
| | |1.. | | IVTIODF | IODF IPL PATH BEING TAKEN |
| | |1. | | IVTIPLPR | SYN.IPLPARM USED FOR IPL PARAMETERS |
| 161 | (A1) | CHARACTER | 1 | IVTFLGS2 | IVT Flags byte 2. |
| | | 1... | | IVTVM | MVS is guest under VM. |
| | | .1.. | | IVTVMXA | MVS is guest under VM/XA NOTE: IVTVM is on also. |
| | | ..1. | | IVTNORWS | If on, indicates that all I/O issued by IPL will set the ORBY bit in the ORB. |
| | | ...1 | | IVTNOTOK | No HW token |
| | | 1... | | IVTNDCMF | No DCM Facility |
| 162 | (A2) | CHARACTER | 1 | IVTFLGS3 | IVT Flags byte 3. |
| 162 | (A2) | CHARACTER | 1 | IVTARCH | Mapped like FLCARCH |
| | | 1... | | IVTEMEMA | \$SCAFFOLD |
| | | .111 111. | | * | |
| | |1 | | IVTZARCH | |
| | |1 | | IVTESAME | |
| 163 | (A3) | CHARACTER | 1 | IVTFLGS4 | IVT Flags byte 4. |
| 163 | (A3) | CHARACTER | 1 | IVTARCHT | Temporary IVTARCH until the DAT tables are set. It is mapped the same as IVTARCH |
| 164 | (A4) | ADDRESS | 4 | IVTNLLEF | ADDRESS OF FIRST NUCLEUS LOAD LIST ELEMENT (NLLE) |
| 168 | (A8) | ADDRESS | 4 | IVTNLLEL | ADDRESS OF LAST NUCLEUS LOAD LIST ELEMENT (NLLE) |
| 172 | (AC) | ADDRESS | 4 | IVTNUCMP | ADDRESS OF THE NUCLEUS MAP |
| 176 | (B0) | SIGNED | 4 | IVTNUCMS | LENGTH OF THE NUCLEUS MAP |
| 180 | (B4) | ADDRESS | 4 | IVTILOAD | ENTRY POINT OF MODULE IPXILOAD |
| 184 | (B8) | ADDRESS | 4 | IVTIICAP | ADDRESS OF THE IOS IRIM COMMUNICATION AREA (IICA) |
| 188 | (BC) | ADDRESS | 4 | IVTLPALP | ADDRESS OF THE LPA DEVICE SUPPORT MODULE LIST |
| 192 | (C0) | SIGNED | 4 | IVTLPALL | LENGTH OF THE LPA DEVICE SUPPORT MODULE LIST |
| 196 | (C4) | ADDRESS | 4 | IVT35AD | ENTRY POINT OF THE MODULE IEAIPL35 |
| 200 | (C8) | CHARACTER | 8 | IVTPARMD | LOAD FRAME PARAMETER DEFAULTS (MAPPED BY IVTPARMS) |
| 208 | (D0) | CHARACTER | 8 | IVTPARML | LOAD FRAME PARAMETER SPECIFICATIONS (MAPPED BY IVTPARMS) |
| 216 | (D8) | CHARACTER | 8 | IVTPARMM | MERGED LOAD FRAME PARAMETER SPECIFICATIONS (MAPPED BY IVTPARMS) |
| 224 | (E0) | ADDRESS | 4 | IVTMQHP | ADDRESS OF THE IPL MESSAGE QUEUE HEADER. |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|------------|---|
| Dec | Hex | | | | |
| 228 | (E4) | CHARACTER | 8 | IVTPRFX | PREFIX OF SYSN.IPLPARM DATASET USED DURING IPL. (VALID ONLY IF IVTIPLPR SET.) |
| 236 | (EC) | SIGNED | 4 | IVTA245 | AMOUNT OF ADDITIONAL SQA THAT MUST BE ADDED TO INITIAL ALLOCATION |
| 240 | (F0) | SIGNED | 4 | IVTAE245 | AMOUNT OF ADDITIONAL ESQA THAT MUST BE ADDED TO INITIAL ALLOCATION |
| 244 | (F4) | ADDRESS | 4 | IVTAVT | ADDRESS OF ALLOCATION VECTOR TABLE (AVT) |
| 248 | (F8) | ADDRESS | 4 | IVTNCRP | ADDRESS OF NIP CONSOLE RECORDS |
| 252 | (FC) | SIGNED | 2 | IVTNCRC | NUMBER OF NIP CONSOLE RECORDS |
| 254 | (FE) | SIGNED | 2 | IVTNCRL | LENGTH OF NIP CONSOLE RECORD |
| 256 | (100) | ADDRESS | 4 | IVTLOAD | ADDRESS OF LOADXX BUFFER |
| 260 | (104) | SIGNED | 4 | IVTLOADL | LENGTH OF LOADXX BUFFER |
| 264 | (108) | CHARACTER | 2 | IVTIOCID | IO CONFIGURATION ID |
| 266 | (10A) | UNSIGNED | 2 | IVTIODFD | IODF DATASET UNIT ADDRESS |
| 268 | (10C) | ADDRESS | 4 | IVTNDIRR | REAL ADDR OF INDEX TO NUCLEUS DIRECTORY |
| 272 | (110) | ADDRESS | 4 | IVTI50PS | ADDRESS OF IPXI50PS |
| 276 | (114) | ADDRESS | 4 | IVTIOBFA | ADDRESS OF IO BUFFER OBTAINED BY IEAIPL50 |
| 280 | (118) | SIGNED | 4 | IVTIOBFL | LENGTH OF IO BUFFER OBTAINED BY IEAIPL50 |
| 284 | (11C) | SIGNED | 4 | IVTNPOSZ | LENGTH OF IEAVNIP0 IN BYTES |
| 288 | (120) | CHARACTER | 16 | IVTEINFO | INFORMATION FOR VSD ABOUT THE MODULE BEING LOADED |
| 288 | (120) | CHARACTER | 8 | IVTENAME | NAME OF THE MODULE BEING LOADED |
| 296 | (128) | SIGNED | 4 | IVTEMALP | ADDRESS MODE + LOAD POINT |
| 296 | (128) | ADDRESS | 4 | IVTELDPT | MODULE LOAD POINT |
| | | 1... | | IVTEMODE | ADDRESS MODE OF THE MODULE |
| 300 | (12C) | SIGNED | 4 | IVTENTLN | LENGTH OF THE MODULE |
| 304 | (130) | ADDRESS | 4 | IVTEXNLF | ADDRESS OF FIRST EXCLUDE NUCLEUS LOAD LIST ELEMENT (NLLE) |
| 308 | (134) | ADDRESS | 4 | IVTEXNLL | ADDRESS OF LAST EXCLUDE NUCLEUS LOAD LIST ELEMENT (NLLE) |
| 312 | (138) | CHARACTER | 2 | IVTNLID | NUCLSTXX ID |
| 314 | (13A) | CHARACTER | 1 | IVTNCXID | Nucleus extension ID. This is initialized to the same value as used for the nucleus, but can be changed during NUCLSTxx processing. |
| 315 | (13B) | CHARACTER | 1 | IVTARCLV | Architecture level (via ARCHLVL keyword of LOADxx) |
| 316 | (13C) | SIGNED | 4 | IVTESQAB | TOTAL ADDITIONAL ESQA BUFFER FOR EACH SUBCHANNEL INSTALLED. |
| 320 | (140) | UNSIGNED | 4 | IVTOMESI | When non-zero, original SCCBMESI |
| 324 | (144) | UNSIGNED | 4 | IVTONXSB | When non-zero, original SCCBNXSB |
| 328 | (148) | CHARACTER | 1 | IVTR148 | Reserved |
| 329 | (149) | CHARACTER | 1 | IVTMTLSH | MTLSHARE value |
| 330 | (14A) | UNSIGNED | 2 | IVTOSAR | When non-zero, original SCCBSAR |
| 332 | (14C) | UNSIGNED | 4 | IVTOSAIX | When non-zero, original SCCBSAIX |
| 336 | (150) | CHARACTER | 16 | IVTALTPM | Alternate Parmlib Name |
| 352 | (160) | CHARACTER | 4 | IVTIPLDV | IPL DEVICE SUBCHANNEL ADDRESS |
| 352 | (160) | SIGNED | 2 | IVTRIPL | RESERVED |
| 354 | (162) | SIGNED | 2 | IVTSIPL | SUBCHANNEL NUMBER |
| 356 | (164) | ADDRESS | 4 | IVTNCUCB | UCB ADDRESS FOR NUCLEUS DS |
| 360 | (168) | CHARACTER | 44 | IVTALTNC | Diagnose area for alternate nucleus support. |
| 360 | (168) | BITSTRING | 4 | * | nucleus schib number. |
| 364 | (16C) | UNSIGNED | 1 | * | length of alternate nucleus dataset name. |
| 365 | (16D) | CHARACTER | 36 | IVTNUCNM | NUCLEUS DATASET NAME |
| 401 | (191) | CHARACTER | 2 | IVTALTPD | Nucleus dataset device no. |
| 403 | (193) | CHARACTER | 1 | IVTR193 | RESERVED |
| 404 | (194) | ADDRESS | 4 | IVTIPST | Address of IPST |
| 408 | (198) | CHARACTER | 16 | * | Reserved |
| 424 | (1A8) | CHARACTER | 96 | IVTIRIML | AREA IN WHICH TO LOAD IEAIPLO1 - MUST BE THE LAST DECLARE IN THE IVT |
| 424 | (1A8) | CHARACTER | 8 | IVT01NAM | 'IEAIPLO1' MOD ID |
| 432 | (1B0) | CHARACTER | 8 | IVT01DAT | COMPILE DATE OF IEAIPLO1 |
| 440 | (1B8) | CHARACTER | 8 | IVT01FMD | FMID OF IEAIPLO1 |
| 448 | (1C0) | CHARACTER | 72 | IVTIRIMD | IRIM SUFFIX DATA AREA |
| 520 | (208) | CHARACTER | 0 | IVTEND | END OF THE IVT |

IVT Constants • IVT Cross Reference

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|------------|-------------------------------------|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 8 | IVTPARMS | LOAD FRAME PARAMETER MAP |
| 0 | (0) | CHARACTER | 4 | IVTIODFU | IODF DATASET UNIT ADDRESS IN EBCDIC |
| 4 | (4) | CHARACTER | 2 | IVTLOADS | LOADXX MEMBER SUFFIX |
| 6 | (6) | CHARACTER | 1 | IVTPROMT | PROMPT OPERATOR FLAG |
| 7 | (7) | CHARACTER | 1 | IVTNUCID | IEANUC0X MEMBER SUFFIX |

IVT Constants

| Len | Type | Value | Name | Description |
|-----|-----------|------------|----------|---------------------------------------|
| 1 | CHARACTER | 1 | IVTNUCDF | DEFAULT FOR IEANUC0X |
| 4 | DECIMAL | 33554432 | IVTEPRIV | Initial size of extended private area |
| 4 | DECIMAL | 2147483647 | IVTHIADR | Maximum virtual storage address |

Comment

SERVICES AVAILABLE DURING IPL-TIME VIA SVC

End of Comment

| | | | | |
|---|---------|----|----------|--|
| 4 | DECIMAL | 0 | ISVCXDAP | EXECUTE DA CHANNEL PROGRAM |
| 4 | DECIMAL | 1 | ISVCWAIT | ENTER A DISABLED WAIT STATE |
| 4 | DECIMAL | 2 | ISVCDAT | SWITCH TRANSLATION MODE |
| 4 | DECIMAL | 3 | ISVCEXIT | EXIT TO CALLER |
| 4 | DECIMAL | 4 | ISVCPGFX | BACK VIRTUAL STORAGE WITH REAL |
| 4 | DECIMAL | 5 | ISVCFIND | READ A PDS DIRECTORY ENTRY |
| 4 | DECIMAL | 6 | ISVCLOAD | LOAD A MODULE INTO REAL STORE |
| 4 | DECIMAL | 7 | ISVCSTOR | ALLOCATE CONTIGUOUS REAL |
| 4 | DECIMAL | 8 | ISVCCNVT | CONVERT TTR TO CCHHR |
| 4 | DECIMAL | 9 | ISVCSSCH | START SUBCHANNEL |
| 4 | DECIMAL | 10 | ISVCSYNC | CALL THRU THE SVC MECHANISM |
| 4 | DECIMAL | 11 | ISVCCSEG | CREATE SEGMENT |
| 4 | DECIMAL | 12 | ISVCCPFX | BACK VIRTUAL STORAGE WITH CONTIGUOUS REAL. |
| 4 | DECIMAL | 13 | ISVCXXDP | EXECUTE DA CHANNEL PROGRAM ON SPECIFIED SUBCHANNEL |

IVT Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| IVT | 0 | | IVTEMEMA | A2 | 80 |
| IVTAESQA | 60 | | IVTEMODE | 128 | 80 |
| IVTAE245 | F0 | | IVTENAME | 120 | |
| IVTALSQA | 88 | | IVTEND | 208 | |
| IVTALTNC | 168 | | IVTENTLN | 12C | |
| IVTALTPD | 191 | | IVTERWNE | 48 | |
| IVTALTPM | 150 | | IVTERWNS | 44 | |
| IVTARCH | A2 | | IVTESAME | A2 | 01 |
| IVTARCHT | A3 | | IVTESQAB | 13C | |
| IVTARCLV | 13B | | IVTESQAL | 64 | |
| IVTASQA | 58 | | IVTEXNLF | 130 | |
| IVTAVT | F4 | | IVTEXNLL | 134 | |
| IVTA245 | EC | | IVTE239A | 80 | |
| IVTCYLDR | 20 | | IVTE239V | 84 | |
| IVTDEVSZ | 20 | | IVTE245A | 70 | |
| IVTDNUCE | 18 | | IVTE245V | 74 | |
| IVTDNUCS | 14 | | IVTFLAGS | A0 | |
| IVTDVSER | 8 | | IVTFLGS1 | A0 | |
| IVTDVTOC | E | | IVTFLGS2 | A1 | |
| IVTEINFO | 120 | | IVTFLGS3 | A2 | |
| IVTELDPT | 128 | | IVTFLGS4 | A3 | |
| IVTELSLN | 94 | | IVTID | 0 | |
| IVTELSQA | 90 | | IVTIICAP | B8 | |
| IVTEMALP | 128 | | IVTILOAD | B4 | |

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| IVTIOBFA | 114 | | IVTSIPL | 162 | |
| IVTIOBFL | 118 | | IVTSQALN | 5C | |
| IVTIOCID | 108 | | IVTSUNRF | A0 | 40 |
| IVTIODF | A0 | 04 | IVTSUUE | A0 | 10 |
| IVTIODFD | 10A | | IVTSVPRC | A0 | 80 |
| IVTIODFU | 0 | | IVTTOPQ | 9C | |
| IVTIPLD | 8 | | IVTTRACK | 22 | |
| IVTIPLDV | 160 | | IVTUE | A0 | 08 |
| IVTIPLPR | A0 | 02 | IVTVM | A1 | 80 |
| IVTIPST | 194 | | IVTVMXA | A1 | 40 |
| IVTIRIMD | 1C0 | | IVTWRKSP | 24 | |
| IVTIRIML | 1A8 | | IVTWSAVH | 2C | |
| IVTI50PS | 110 | | IVTWSAVL | 30 | |
| IVTLEN | 4 | | IVTWSBLO | 30 | |
| IVTLOAD | 100 | | IVTWSBND | 2C | |
| IVTLOADL | 104 | | IVTWSHI | 24 | |
| IVTLOADS | 4 | | IVTWSLOW | 28 | |
| IVTLPALL | C0 | | IVTWSTLO | 2C | |
| IVTLPALP | BC | | IVTZARCH | A2 | 01 |
| IVTLSQLN | 8C | | IVT01DAT | 1B0 | |
| IVTMQHP | E0 | | IVT01FMD | 1B8 | |
| IVTMTLSH | 149 | | IVT01NAM | 1A8 | |
| IVTNCRCL | FC | | IVT239A | 78 | |
| IVTNCRP | FE | | IVT239V | 7C | |
| IVTNCUCB | F8 | | IVT245A | 68 | |
| IVTNCUCB | 164 | | IVT245V | 6C | |
| IVTNCXID | 13A | | IVT35AD | C4 | |
| IVTNDCMF | A1 | 08 | | | |
| IVTNDIRR | 10C | | | | |
| IVTNLID | 138 | | | | |
| IVTNLLEF | A4 | | | | |
| IVTNLLEL | A8 | | | | |
| IVTNORWS | A1 | 20 | | | |
| IVTNOTOK | A1 | 10 | | | |
| IVTNP0AD | 4C | | | | |
| IVTNP0NO | 50 | | | | |
| IVTNP0SZ | 11C | | | | |
| IVTNRF | A0 | 20 | | | |
| IVTNUCID | 7 | | | | |
| IVTNUCMP | AC | | | | |
| IVTNUCMS | B0 | | | | |
| IVTNUCNM | 16D | | | | |
| IVTOMESI | 140 | | | | |
| IVTONXSB | 144 | | | | |
| IVTOSAIX | 14C | | | | |
| IVTOSAR | 14A | | | | |
| IVTPARMD | C8 | | | | |
| IVTPARML | D0 | | | | |
| IVTPARMM | D8 | | | | |
| IVTPARMS | 0 | | | | |
| IVTPRFX | E4 | | | | |
| IVTPROMT | 6 | | | | |
| IVTRIPL | 160 | | | | |
| IVTRONE | 38 | | | | |
| IVTRONS | 34 | | | | |
| IVTRPSA | 54 | | | | |
| IVTRWNE | 40 | | | | |
| IVTRWNS | 3C | | | | |
| IVTR00E | 13 | | | | |
| IVTR01C | 1C | | | | |
| IVTR148 | 148 | | | | |
| IVTR193 | 193 | | | | |
| IVTSCHAN | 1C | | | | |
| IVTSCHN | 1E | | | | |
| IVTSCPIN | 98 | | | | |

IWMCNTRL Programming Interface information

Programming Interface information

IWMCNTRL

End of Programming Interface information

IWMCNTRL Heading Information

Common Name: IWMCNTN Request List Mappings
Macro ID: IWMCNTRL
DSECT Name: CNTRL
Owning Component: WLM (SCWLM)
Eye-Catcher ID: None
Storage Attributes: Subpool: Any
 Key: See requirements for macro IWMCNTN
 Residency: Above 16M line
Size: Determined at run time
 CNTRL_MAP -- X'0040' bytes
Created by: Caller of IWMCNTN
Pointed to by: Request list pointer in IWMCNTN parameter list
Serialization: Responsibility of IWMCNTN caller
Function: Maps IWMCNTN resource topology request list

IWMCNTRL Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|--------------------------|------|------------|-----|------------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | CNTRL_MAP | |
| 0 | (0) | CHARACTER | 32 | CNTRL_HEADER (0) | |
| 0 | (0) | CHARACTER | 8 | CNTRL_ID | IN : eye catcher (opt) |
| 8 | (8) | SIGNED | 1 | CNTRL_VERSION | IN : request list version |
| 9 | (9) | CHARACTER | 3 | | reserved |
| 12 | (C) | SIGNED | 4 | CNTRL_LENGTH | IN : request list length |
| 16 | (10) | SIGNED | 4 | CNTRL_REQUEST_COUNT | IN : number of entries |
| 20 | (14) | CHARACTER | 12 | | reserved |
| 32 | (20) | CHARACTER | 32 | CNTRL_ENTRIES (0) | |
| 32 | (20) | CHARACTER | 1 | CNTRL_REQUEST_CODE | IN : Add or Delete |
| 33 | (21) | CHARACTER | 1 | CNTRL_ENTITY_TYPE | IN : Holder or Waiter |
| 34 | (22) | CHARACTER | 6 | | reserved |
| 40 | (28) | CHARACTER | 20 | CNTRL_ENTITY_ID (0) | |
| 40 | (28) | CHARACTER | 8 | CNTRL_STOKEN | IN : address space token |
| 48 | (30) | ADDRESS | 4 | CNTRL_TCBPTR | IN : TCB address |
| 52 | (34) | CHARACTER | 8 | CNTRL_ETOKEN | IN : enclave token |
| 60 | (3C) | SIGNED | 2 | CNTRL_RETURN_CODE | OUT: request return code |
| 62 | (3E) | SIGNED | 2 | CNTRL_REASON_CODE | OUT: request reason code |
| Comment | | | | | |
| Constant for eye catcher | | | | | |
| End of Comment | | | | | |
| 62 | (3E) | X'E6D4C3' | 0 | CNTRL_EYE_0TO3 | "C'IWMC'" This is the first 4-byte segment of an 8-byte constant. |
| 62 | (3E) | X'E3D9D3' | 0 | CNTRL_EYE_4TO7 | "C'NTRL'" This is the second 4-byte segment of an 8-byte constant. |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|-----------------------------|------|------------|-----|----------------------|----------------|
| Dec | Hex | | | | |
| | | | | | Comment |
| Constants for Versions | | | | | |
| | | | | | End of Comment |
| 62 | (3E) | X'1' | 0 | CNTRL_VERSION_V1 | "1" |
| | | | | | Comment |
| Constants for Request_Codes | | | | | |
| | | | | | End of Comment |
| 62 | (3E) | X'C1' | 0 | CNTRL_REQUEST_ADD | "C'A" |
| 62 | (3E) | X'C4' | 0 | CNTRL_REQUEST_DELETE | "C'D" |
| | | | | | Comment |
| Constants for Entity_Types | | | | | |
| | | | | | End of Comment |
| 62 | (3E) | X'C8' | 0 | CNTRL_ENTITY HOLDER | "C'H" |
| 62 | (3E) | X'E6' | 0 | CNTRL_ENTITY_WAITER | "C'W" |
| 62 | (3E) | X'40' | 0 | CNTRL_MAP_LEN | "*-CNTRL_MAP" |

IWMCNTRL Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|---------------------|------------|-----------|----------------------|------------|-----------|
| CNTRL_ENTITY HOLDER | 3E | C8 | CNTRL_REQUEST_DELETE | 3E | C4 |
| CNTRL_ENTITY_ID | 28 | | CNTRL_RETURN_CODE | 3C | |
| CNTRL_ENTITY_TYPE | 21 | | CNTRL_STOKEN | 28 | |
| CNTRL_ENTITY_WAITER | 3E | E6 | CNTRL_TCBPTR | 30 | |
| CNTRL_ENTRIES | 20 | | CNTRL_VERSION | 8 | |
| CNTRL_ETOKEN | 34 | | CNTRL_VERSION_V1 | 3E | 1 |
| CNTRL_EYE_0TO3 | 3E | E6D4C3 | | | |
| CNTRL_EYE_4TO7 | 3E | E3D9D3 | | | |
| CNTRL_HEADER | 0 | | | | |
| CNTRL_ID | 0 | | | | |
| CNTRL_LENGTH | C | | | | |
| CNTRL_MAP | 0 | | | | |
| CNTRL_MAP_LEN | 3E | 40 | | | |
| CNTRL_REASON_CODE | 3E | | | | |
| CNTRL_REQUEST_ADD | 3E | C1 | | | |
| CNTRL_REQUEST_CODE | 20 | | | | |
| CNTRL_REQUEST_COUNT | 10 | | | | |

IWMECD Programming Interface information

Programming Interface information

IWMECD

End of Programming Interface information

IWMECD Heading Information

Common Name: Enclave Classification Data Mapping
Macro ID: IWMECD
DSECT Name: ECD
Owning Component: Workload Manager (SCWLM)
Eye-Catcher ID: NONE
Storage Attributes: Key: N/A FREQUENCY: N/A
Size: See assembler listing
ECD -- X'0270' bytes 5
Created by: N/A
Pointed to by: N/A
Serialization: N/A
Function: Provides a mapping of the classification data returned from the IWMECQRY service.

IWMECD Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|--------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | ECD | |
| 0 | (0) | CHARACTER | 4 | ECD_LENGTH_FIELDS (0) | |
| 0 | (0) | SIGNED | 1 | ECDCLLL | Collection length |
| 1 | (1) | SIGNED | 1 | E CDCORL | Correlation length |
| 2 | (2) | SIGNED | 1 | ECDSSPL | Subsystem Parameter length |
| 3 | (3) | SIGNED | 1 | ECDACCL | Account Information length |
| 4 | (4) | CHARACTER | 94 | ECD_CHAR_FIELD1 (0) | |
| 4 | (4) | CHARACTER | 8 | ECDTRXN | Transaction program name |
| 12 | (C) | CHARACTER | 8 | ECDUSER | Userid |
| 20 | (14) | CHARACTER | 8 | ECDTRXC | Transaction class |
| 28 | (1C) | CHARACTER | 8 | ECDNET | Network ID |
| 36 | (24) | CHARACTER | 8 | ECDLU | Logical Unit name |
| 44 | (2C) | CHARACTER | 8 | ECDPLAN | Plan |
| 52 | (34) | CHARACTER | 8 | ECDPCKG | Package |
| 60 | (3C) | CHARACTER | 8 | E CDCNCTN | Connection |
| 68 | (44) | CHARACTER | 18 | E CDCOLL | Collection |
| 86 | (56) | CHARACTER | 12 | E CDCORR | Correlation |
| 98 | (62) | CHARACTER | 20 | ECD_CHAR_FIELD2 (0) | |
| 98 | (62) | CHARACTER | 4 | ECDSUBT | Subsystem Type |
| 102 | (66) | CHARACTER | 8 | ECDFCN | Function Name |
| 110 | (6E) | CHARACTER | 8 | ECDSUBN | Subsystem Name |
| 118 | (76) | CHARACTER | 398 | ECD_CHAR_FIELD3 (0) | |
| 118 | (76) | CHARACTER | 255 | ECDSSPM | Subsystem Parameter |
| 373 | (175) | CHARACTER | 143 | ECDACCT | Account Information |
| 516 | (204) | SIGNED | 1 | ECD_VERSION | Version |
| 517 | (205) | CHARACTER | 18 | ECD_PROCEDURENAME | |
| | | | | | Proc name |
| 535 | (217) | SIGNED | 1 | | Reserved This is a doubleword boundary |
| 536 | (218) | SIGNED | 2 | ECD_LENGTH | Length |
| 538 | (21A) | CHARACTER | 8 | ECD_PERFORM | Perform= value, EBCDIC format |
| 546 | (222) | SIGNED | 1 | ECD_PROCNAME_LEN | |
| | | | | | Procedure name length |
| 547 | (223) | CHARACTER | 1 | | Reserved |
| 548 | (224) | CHARACTER | 4 | ECD_END_VERSION1 (0) | |
| | | | | | End of version 1 answer area |
| 548 | (224) | SIGNED | 4 | ECD_PRIORITY | Subsystem priority in binary format. Contains hexadecimal 80000000 if the subsystem did not provide a priority. |

| Offsets | | | | | |
|---------|-------|------------|-----|-------------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 552 | (228) | CHARACTER | 1 | ECD_END_VERSION2 (0) | End of version 2 answer area |
| 552 | (228) | CHARACTER | 33 | ECD_START_VERSION3 (0) | Start of version 3 answer area |
| 552 | (228) | CHARACTER | 32 | ECD_PROCESSNAME | Process name |
| 584 | (248) | SIGNED | 1 | ECD_PROCESSNAME_LEN | Process name length |
| 585 | (249) | CHARACTER | 1 | ECD_END_VERSION3 (0) | End of version 3 answer area |
| 585 | (249) | CHARACTER | 7 | | Reserved, to insure dword BDY IN ASSEMBLER |
| 592 | (250) | CHARACTER | 1 | ECD_START_VERSION4 (0) | Version 4. Force double word boundry for future versions. |
| 592 | (250) | CHARACTER | 1 | ECD_END_VERSION4 (0) | End of version 4 answer area |
| 592 | (250) | CHARACTER | 32 | ECD_START_VERSION5 (0) | Start of Version 5. Force double word boundry for future versions. |
| 592 | (250) | CHARACTER | 16 | ECD_SCHEDULINGENVIRONMENT | |
| 608 | (260) | SIGNED | 1 | ECD_SCHEDULINGENVIRONMENT_LEN | |
| 609 | (261) | CHARACTER | 8 | ECD_SUBSYSTEMCOLLECTIONNAME | |
| 617 | (269) | CHARACTER | 7 | | Reserved |
| 624 | (270) | CHARACTER | 1 | ECD_END_VERSION5 (0) | End of version 5 answer area |
| 624 | (270) | X'1' | 0 | ECD_VERSION1 | "1" ECD version 1 |
| 624 | (270) | X'2' | 0 | ECD_VERSION2 | "2" ECD version 2 |
| 624 | (270) | X'3' | 0 | ECD_VERSION3 | "3" ECD version 3 |
| 624 | (270) | X'4' | 0 | ECD_VERSION4 | "4" ECD version 4 |
| 624 | (270) | X'5' | 0 | ECD_VERSION5 | "5" ECD version 5 |
| 624 | (270) | X'5' | 0 | ECD_VERSION_LATEST | "5" ECD version W2EQY |
| 624 | (270) | X'224' | 0 | ECD_VERSION1_LEN | "548" Length of version 1 ECD |
| 624 | (270) | X'228' | 0 | ECD_VERSION2_LEN | "552" Length of version 2 ECD |
| 624 | (270) | X'249' | 0 | ECD_VERSION3_LEN | "585" Length of version 3 ECD |
| 624 | (270) | X'250' | 0 | ECD_VERSION4_LEN | "592" Length of version 4 ECD |
| 624 | (270) | X'270' | 0 | ECD_VERSION5_LEN | "624" Length of version 5 ECD |
| 624 | (270) | X'270' | 0 | ECD_LEN | ** -ECD" |

IWMECD Cross Reference

IWMECD Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|-------------------------------|---------------|--------------|----------|---------------|--------------|
| ECD | 0 | | ECDCLLL | 0 | |
| ECD_CHAR_FIELD1 | | | ECDCNCTN | 3C | |
| | 4 | | E CDCOLL | 44 | |
| ECD_CHAR_FIELD2 | | | E CDCORL | 1 | |
| | 62 | | E CDCORR | 56 | |
| ECD_CHAR_FIELD3 | | | E CDFCN | 66 | |
| | 76 | | E CDLU | 24 | |
| ECD_END_VERSION1 | | | E CDNET | 1C | |
| | 224 | | E CDPCKG | 34 | |
| ECD_END_VERSION2 | | | E CDPLAN | 2C | |
| | 228 | | E CDSSPL | 2 | |
| ECD_END_VERSION3 | | | E CDSSPM | 76 | |
| | 249 | | E CDSUBN | 6E | |
| ECD_END_VERSION4 | | | E CDSUBT | 62 | |
| | 250 | | E CDTRXC | 14 | |
| ECD_END_VERSION5 | | | E CDTRXN | 4 | |
| | 270 | | E CDUSER | C | |
| ECD_LEN | 270 | 270 | | | |
| ECD_LENGTH | 218 | | | | |
| ECD_LENGTH_FIELDS | | | | | |
| | 0 | | | | |
| ECD_PERFORM | 21A | | | | |
| ECD_PRIORITY | 224 | | | | |
| ECD_PROCEDURENAME | | | | | |
| | 205 | | | | |
| ECD_PROCESSNAME | | | | | |
| | 228 | | | | |
| ECD_PROCESSNAME_LEN | | | | | |
| | 248 | | | | |
| ECD_PROCNAME_LEN | | | | | |
| | 222 | | | | |
| ECD_SCHEDULINGENVIRONMENT | | | | | |
| | 250 | | | | |
| ECD_SCHEDULINGENVIRONMENT_LEN | | | | | |
| | 260 | | | | |
| ECD_START_VERSION3 | | | | | |
| | 228 | | | | |
| ECD_START_VERSION4 | | | | | |
| | 250 | | | | |
| ECD_START_VERSION5 | | | | | |
| | 250 | | | | |
| ECD_SUBSYSTEMCOLLECTIONNAME | | | | | |
| | 261 | | | | |
| ECD_VERSION | 204 | | | | |
| ECD_VERSION_LATEST | | | | | |
| | 270 | 5 | | | |
| ECD_VERSION1 | 270 | 1 | | | |
| ECD_VERSION1_LEN | | | | | |
| | 270 | 224 | | | |
| ECD_VERSION2 | 270 | 2 | | | |
| ECD_VERSION2_LEN | | | | | |
| | 270 | 228 | | | |
| ECD_VERSION3 | 270 | 3 | | | |
| ECD_VERSION3_LEN | | | | | |
| | 270 | 249 | | | |
| ECD_VERSION4 | 270 | 4 | | | |
| ECD_VERSION4_LEN | | | | | |
| | 270 | 250 | | | |
| ECD_VERSION5 | 270 | 5 | | | |
| ECD_VERSION5_LEN | | | | | |
| | 270 | 270 | | | |
| ECDACCL | 3 | | | | |
| ECDACCT | 175 | | | | |

IWMENF57 Programming Interface information

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|--|--|--|
| | Programming Interface information | |
| | <u>IWMENF57</u> | |
| | End of Programming Interface information | |

IWMENF57 Heading Information

Common Name: ENF signal 57 parameter list
Macro ID: IWMEF57
DSECT Name: WLMENF57
Owning Component: Workload Manager (SCWLM)
Eye-Catcher ID: NONE
Storage Attributes: Key: 0
Residency: Above 16M line, in the private storage of the address space in which the listen exit receives control.
Size: See assembly listing
Created by: WLM
Pointed to by: First word of the parameter list passed to the listen exit
Serialization: None
Function: Maps the parameter list passed to ENF listen exits that are listening for event code 57.
This event occurs when the status of a scheduling environment changes.

IWMENF57 Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|--|------|------------|-----|-------------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | WLMENF57 | |
| 0 | (0) | BITSTRING | 4 | WLMENF57_QUALIFIER | IWMENF57.164: Qualifier |
| 4 | (4) | CHARACTER | 16 | WLMENF57_SCHENV | IWMENF57.27: Name of the scheduling environment whose status changed |
| 20 | (14) | CHARACTER | 8 | WLMENF57_SYSTEM_NAME | IWMENF57.90: Name of the system on which the status changed |
| 28 | (1C) | BITSTRING | 1 | WLMENF57_FLAG (0) | IWMENF57.87: Flags |
| | | 1... .. | | WLMENF57_SCHENV_AVAILABLE | "X'80" IWMENF57.203: If on, indicates that the scheduling environment is available. If off, indicates that the scheduling environment is not available. |
| 29 | (1D) | CHARACTER | 3 | WLMENF57_RESERVED_FLAGS | IWMENF57.102: Reserved flags |
| 32 | (20) | CHARACTER | 8 | WLMENF57_RESERVED1 | IWMENF57.192: Reserved |
| 40 | (28) | CHARACTER | 8 | WLMENF57_RESERVED2 | IWMENF57.234: Reserved |
| Comment | | | | | |
| IWMEF57.229: End of parameter list | | | | | |
| Qualifier values | | | | | |
| IWMEF57.13: The state of a scheduling environment has changed due to a MODIFY WLM,RESOURCE= command or IWMSSET service request | | | | | |
| End of Comment | | | | | |
|  |  | .... .. |  | WLMENF57_NORMAL_SCHENV_CHANGE | "X'80000000" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|--|------|------------|-----|---------------------------------|----------------|
| Dec | Hex | | | | |
| | | | | | Comment |
| IWMENF57.158: The state of a scheduling environment has changed due to WLM recovery processing | | | | | |
| | | | | | End of Comment |
|  |  | .... |  | WLMENF57_RECOVERY_SCHENV_CHANGE | "X'40000000" |
| 40 | (28) | X'30' | 0 | WLMENF57_LEN | ** -WLMENF57" |

IWMENF57 Cross Reference

| Name | Hex Offset | Hex Value |
|---------------------------------|------------|-----------|
| WLMENF57 | 0 | |
| WLMENF57_FLAG | 1C | |
| WLMENF57_LEN | 28 | 30 |
| WLMENF57_NORMAL_SCHENV_CHANGE | 28 | 0 |
| WLMENF57_QUALIFIER | 0 | |
| WLMENF57_RECOVERY_SCHENV_CHANGE | 28 | 0 |
| WLMENF57_RESERVED_FLAGS | 1D | |
| WLMENF57_RESERVED1 | 20 | |
| WLMENF57_RESERVED2 | 28 | |
| WLMENF57_SCHENV | 4 | |
| WLMENF57_SCHENV_AVAILABLE | 1C | 80 |
| WLMENF57_SYSTEM_NAME | 14 | |

IWMENF61 Programming Interface information

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| Programming Interface information |
| <u>IWMENF61</u> |
| End of Programming Interface information |

IWMENF61 Heading Information

Common Name: ENF signal 61 parameter list
Macro ID: IWMEF61
DSECT Name: WLMENF61
Owning Component: Workload Manager (SCWLM)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: 245
 Key: 0
 Residency: Above 16M line
Size: See assembly listing
Created by: WLM
Pointed to by: First word of the parameter list passed to the listen exit
Serialization: None
Function: Maps the parameter list passed to ENF listen exits that are listening for event code 61.
 This event occurs when the capacity of the MVS image or the CEC changes.

IWMENF61 Map

| Offsets | | Type | Len | Name (Dim) | Description |
|---------|------|-----------|-----|--------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 20 | WLMENF61 | |
| 0 | (0) | UNSIGNED | 2 | ENF61LEN | IWMENF61.164: Parm list length |
| 2 | (2) | UNSIGNED | 2 | ENF61VER | IWMENF61.27: Parm List Version |
| 4 | (4) | BITSTRING | 4 | ENF61QUAL | IWMENF61.99: Qualifier |
| 8 | (8) | UNSIGNED | 4 | ENF61IMAGECAPACITY | IWMENF61.16: Potential CPU capacity of the logical partition, or of the CEC if in basic mode. |
| 8 | (8) | UNSIGNED | 4 | ENF61IMGWLU | IWMENF61.90: Old field name maintained for compatibility |
| 12 | (C) | UNSIGNED | 4 | ENF61CECCAPACITY | IWMENF61.180: Potential CPU capacity of the CEC |
| 12 | (C) | UNSIGNED | 4 | ENF61CECWLU | IWMENF61.198: Old field name maintained for compatibility |
| 16 | (10) | UNSIGNED | 4 | ENF61VMCAPACITY | IWMENF61.234: Potential CPU capacity of the virtual machine. This is 0 if MVS is not running in a virtual machine. |

IWMENF61 Constants

| Len | Type | Value | Name | Description |
|---|------|----------|--------------------------|-------------|
| <div> <div>Comment</div> <div>IWMENF61.13: The MVS image or CEC capacity changed</div> <div>End of Comment</div> </div> | | | | |
| 4 | HEX | 80000000 | WLMENF61_CAPACITY_CHANGE | |

IWMPB Programming Interface information

Programming Interface information

IWMPB

INCLUDE ONLY

End of Programming Interface information

IWMPB Heading Information

Common Name: Performance Block for IWM Work Manager and Delay Monitoring Services
Macro ID: IWMPB
DSECT Name: PB
Owning Component: Workload Manager (SCWLM)
Eye-Catcher ID: PB (padded on the right with two blanks)
 Offset: 0
 Length: 4
Storage Attributes: Key: Specified on IWMMCREA FREQUENCY: One per successful invocation of IWMMCREA
Size: 224 bytes
Created by: IWMMCREA service routine
Pointed to by: PBDE_PBPTR
Serialization: Responsibility of the user of the monitoring token returned by IWMMCREA
Function: Provides a mapping of the data area for users of IWM services and exits.

IWMPB Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|--------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | PB | |
| 0 | (0) | DBL WORD | 8 | (0) | |
| 0 | (0) | CHARACTER | 32 | PB_CREATE | Space reserved for Create attributes |
| 0 | (0) | CHARACTER | 5 | PB_ID_VERSION | |
| | | | | | Space for id and version information |
| 0 | (0) | CHARACTER | 4 | PB_ID | Space for id |
| 0 | (0) | X'C24040' | 0 | PB_ID_CONST | "C'PB '" Performance block eye catcher constant |
| 4 | (4) | BITSTRING | 1 | PB_VERSION | Space for version information |
| 4 | (4) | X'1' | 0 | PB_VERSION1 | "1" Performance block version 1. 1=HBB5510, HBB5520 |
| 4 | (4) | X'2' | 0 | PB_VERSION2 | "2" Performance block version 2. 2=HBB6603. |
| 4 | (4) | X'3' | 0 | PB_VERSION3 | "3" Performance block version 3. 3=JBB6609. |
| 4 | (4) | X'4' | 0 | PB_VERSION4 | "4" Performance block version 4. 4=HBB7705. |
| 4 | (4) | X'5' | 0 | PB_VERSION5 | "5" Performance block version 5. 4=HBB7707. |
| 4 | (4) | X'5' | 0 | PB_CURRENT_VERSION | |
| | | | | | "5" Performance block current version |
| 5 | (5) | BITSTRING | 1 | PB_FLAGS | Flag Area |
| 5 | (5) | X'CO' | 0 | PB_FLAGS_MASK | |
| | | | | | "PB_REPORT_ONLY+PB_ASSOCIATE" Mask for PB Flags |
| | | 1... | | PB_REPORT_ONLY | |
| | | | | | "B'10000000" This is a report only PB |
| | | .1.. | | PB_ASSOCIATE | |
| | | | | | "B'01000000" This PB is associated with an enclave or an address space |
| 6 | (6) | BITSTRING | 2 | PB_NEW_LENGTH | |
| | | | | | Length of PB_CLEAR. See Notes section in prolog if you are changing the length of PB_CLEAR |
| 8 | (8) | CHARACTER | 4 | PB_SUBSYS_TYPE | |
| | | | | | Subsystem type |
| 12 | (C) | CHARACTER | 8 | PB_SUBSYSNM | Subsystem name |
| 20 | (14) | ADDRESS | 4 | PB_MIRROR_PTR | |
| | | | | | PB Mirror pointer |
| 20 | (14) | BITSTRING | 4 | PB_MIRROR_TKN | |
| | | | | | Token for control information |
| 24 | (18) | CHARACTER | 8 | PB_RSVD0018 | Reserved space |
| 32 | (20) | CHARACTER | 1 | PB_CLEAR_FLD | Origin of area to be cleared for reuse |
| | | | | (0) | |
| 32 | (20) | BITSTRING | 4 | PB_OWNER_DATA | |
| | | | | | Data specified by user/owner |
| 36 | (24) | BITSTRING | 4 | PB_OWNER_TKN | Token specified by user/owner |

| Offsets | | | | | |
|---------|--------|------------|-----|--------------------------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 40 | (28) | DBL WORD | 8 | (0) | PB_ARRTIME should be on a dwd boundary |
| 40 | (28) | BITSTRING | 8 | PB_ARRTIME | Arrival time for work request |
| 48 | (30) | DBL WORD | 8 | (0) | PB_EXSTARTTIME should be on a dwd boundary |
| 48 | (30) | BITSTRING | 8 | PB_EXSTARTTIME | Execution start time for work request |
| 56 | (38) | ADDRESS | 4 | PB_DU_ASCB | Address of ASCB associated with the dispatchable unit serving the work request |
| 60 | (3C) | ADDRESS | 4 | PB_DU | Address of TCB associated with the dispatchable unit serving the work request or 1 signifying an SRB |
| 60 | (3C) | X'1' | 0 | PB_DU_SRB | "1" DU is associated with an SRB |
| 60 | (3C) | X'1' | 0 | PB_SRB_SAMEDU_NO | "1" DU is associated with an SRB distinct from the parent |
| 60 | (3C) | X'3' | 0 | PB_SRB_SAMEDU_YES | "3" DU is associated with same SRB as parent |
| 64 | (40) | CHARACTER | 1 | PB_RSVD0040 | Reserved space |
| 65 | (41) | BITSTRING | 1 | PB_STATE | State of the work request |
|  |  | .... .... |  | PB_STATE_FREE | "X'00" State is free - PB not associated with a work request |
| | |1 | | PB_STATE_ACTIVE | "X'01" State is active - work request associated with the PB is active (running on a CP) |
| | |1 | | PB_STATE_ACTIVE_SUBSYS | "X'01" @WLMPPAPC State is active - subsys work request with the PB is active (running on a CP) - Equivalent to old active state |
| | |1. | | PB_STATE_READY | "X'02" State is ready - work request associated with the PB is ready (could run on a CP if another program were not running) |
| | |11 | | PB_STATE_IDLE | "X'03" State is idle - no work request is available to the work manager that it is allowed to run |
| | |1.. | | PB_STATE_ACTIVE_APPLIC | "X'04" @WLMPPAPC State is active - application work with the PB is active |
| 111. | ...1 | | | PB_STATE_WAITING_SSL_THREAD | "X'E1" @WLMPPAPC State is waiting on an SSL Thread |
| 111. | ...1. | | | PB_STATE_WAITING_REGULAR_THREAD | "X'E2" @WLMPPAPC State is waiting on a regular Thread |
| 111. | ...11 | | | PB_STATE_WAITING_REGIST_TO_WORKTABLE | "X'E3" @WLMPPAPC State is waiting for a registration to worktable |
| 11.1 | ...1 | | | PB_STATE_WAITING_TYPE1 | "X'D1" @WLMPPBS Waiting state for resource TYPE 1 |
| 11.1 | ...1. | | | PB_STATE_WAITING_TYPE2 | "X'D2" @WLMPPBS Waiting state for resource TYPE 2 |
| 11.1 | ...11 | | | PB_STATE_WAITING_TYPE3 | "X'D3" @WLMPPBS Waiting state for resource TYPE 3 |
| 11.1 | ...1.. | | | PB_STATE_WAITING_TYPE4 | "X'D4" @WLMPPBS Waiting state for resource TYPE 4 |
| 11.1 | ...1.1 | | | PB_STATE_WAITING_TYPE5 | "X'D5" @WLMPPBS Waiting state for resource TYPE 5 |
| 11.1 | ...11. | | | PB_STATE_WAITING_TYPE6 | "X'D6" @WLMPPBS Waiting state for resource TYPE 6 |
| 11.1 | ...111 | | | PB_STATE_WAITING_TYPE7 | "X'D7" @WLMPPBS Waiting state for resource TYPE 7 |
| 11.1 | 1... | | | PB_STATE_WAITING_TYPE8 | "X'D8" @WLMPPBS Waiting state for resource TYPE 8 |
| 11.1 | 1..1 | | | PB_STATE_WAITING_TYPE9 | "X'D9" @WLMPPBS Waiting state for resource TYPE 9 |
| 11.1 | 1.1. | | | PB_STATE_WAITING_TYPE10 | "X'DA" @WLMPPBS Waiting state for resource TYPE 10 |
| 11.1 | 1.11 | | | PB_STATE_WAITING_TYPE11 | "X'DB" @WLMPPBS Waiting state for resource TYPE 11 |
| 11.1 | 11.. | | | PB_STATE_WAITING_TYPE12 | |

IWMPB Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|--------------------------|------|--|-----|--|--|
| Dec | Hex | | | | |
| | | 11.1 11.1 | | PB_STATE_WAITING_TYPE13 | "X'DC" @WLMPPBS Waiting state for resource TYPE 12 |
| | | 11.1 111. | | PB_STATE_WAITING_TYPE14 | "X'DD" @WLMPPBS Waiting state for resource TYPE 13 |
| | | 11.1 1111 | | PB_STATE_WAITING_TYPE15 | "X'DE" @WLMPPBS Waiting state for resource TYPE 14 |
| | | 1111 ...1 | | PB_STATE_WAITING_BUFFER_POOL_IO | "X'DF" @WLMPPBS Waiting state for resource TYPE 15 |
| | | 1111 ..1. | | PB_STATE_WAITING_BUFFER_POOL_CF | "X'F1" State is waiting on an IO due to a buffer pool miss |
| | | 1111 ..11 | | PB_STATE_WAITING_BUFFER_POOL_CF_IO | "X'F2" State is waiting on an CF access due to a buffer pool miss |
| | | 1111 .1.. | | PB_STATE_WAITING_CF_IO | "X'F3" State is waiting on an IO due to a buffer pool miss and a CF miss |
| | | 1111 .1.1 | | PB_STATE_WAITING_DISTRIB | "X'F4" @WLMPPBPM State is waiting on an IO due to a CF miss |
| | | 1111 .11. | | PB_STATE_WAITING_TIMER | "X'F5" State is waiting on a distributed request |
| | | 1111 .111 | | PB_STATE_WAITING_LATCH | "X'F6" State is waiting on a timer |
| | | 1111 1... | | PB_STATE_WAITING_CONV | "X'F7" State is waiting on a latch |
| | | 1111 1..1 | | PB_STATE_WAITING_SESS_LOCALMVS | "X'F8" State is waiting on a conversation |
| | | 1111 1.1. | | PB_STATE_WAITING_SESS_SYSPLEX | "X'F9" State is waiting to establish a session somewhere in the same MVS image |
| | | 1111 1.11 | | PB_STATE_WAITING_SESS_NETWORK | "X'FA" State is waiting to establish a session somewhere in the sysplex |
| | | 1111 11.. | | PB_STATE_WAITING_OTHER_PRODUCT | "X'FB" State is waiting to establish a session somewhere in the network |
| | | 1111 11.1 | | PB_STATE_WAITING_MISC | "X'FC" State is waiting on another product |
| | | 1111 111. | | PB_STATE_WAITING_LOCK | "X'FD" State is waiting on some unidentified resource, possibly one of the other defined waiting conditions |
| | | 1111 1111 | | PB_STATE_WAITING_IO | "X'FE" State is waiting on one or more locks |
| 66 | (42) | BITSTRING 1... .... .1... .... ..1. .... ...1 1... .... .1.. | 1 | PB_WORKDEF PB_INIT PB_FROM_LOCALMVS PB_FROM_SYSPLEX PB_FROM_NETWORK PB_FROM_NONE PB_SCOPE_SHARED | Flags associated with the work request "B'10000000" Initialize used for work environment "B'01000000" CONTINUATION(YES) FROM(LOCALMVS) "B'00100000" CONTINUATION(YES) FROM(SYSPLEX) "B'00010000" CONTINUATION(YES) FROM(NETWORK) "B'00001000" CONTINUATION(YES) FROM(NONE) "B'00000100" Initialize SCOPE(SHARED) work rqst |
| Comment | | | | | |
| EQU B'00000010' RESERVED | | | | | |
| End of Comment | | | | | |
| 67 | (43) | BITSTRING.... ...1 | 1 | PB_RELATE PB_SWITCH_INFO | "B'00000001" Relate used for work environment |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---|------|------------|-----|--------------------------|--|
| Dec | Hex | | | | |
| | |1 | | PB_SWITCH_LOCALMVS | Switch Continuation Information |
| | |1. | | PB_SWITCH_SYSPLEX | "X'01" Switch WHERE(LOCALMVS) |
| | |11 | | PB_SWITCH_NETWORK | "X'02" Switch WHERE(SYSPLEX) |
| | | | | | "X'03" Switch WHERE(NETWORK) |
| 68 | (44) | BITSTRING | 1 | PB_MONENV_INFO | Information about the mon. env. |
| 68 | (44) | X'C0' | 0 | PB_DURATION | "PB_DURATION_EXECUTION+PB_DURATION_BEGIN_TO_END" Mask for all duration options. |
| Comment | | | | | |
| WARNING: PB_DURATION must be updated whenever a new duration value is added. | | | | | |
| End of Comment | | | | | |
| | | 1... | | PB_DURATION_BEGIN_TO_END | "B'10000000" DURATION(BEGIN_TO_END) |
| | | .1... | | PB_DURATION_EXECUTION | "B'01000000" DURATION(EXECUTION) |
| 69 | (45) | CHARACTER | 3 | PB_RSVD0045 | Reserved space |
| 72 | (48) | BITSTRING | 4 | PB_PARENT_MONTKN | Token for the parent monitoring environment |
|  |  | .... .... |  | PB_PARENT_MONTKN_HIBIT | "X'80000000" Hi order bit of token |
| 74 | (4A) | SIGNED | 2 | PB_PARENT_HOME_ASID | ASID for Parent when parent is an address space |
| 76 | (4C) | ADDRESS | 4 | PB_PARENT_MIRROR_PTR | PB Parent mirror token pointer |
| 76 | (4C) | BITSTRING | 4 | PB_PARENT_MIRROR_TKN | Token for parent control information |
| 80 | (50) | BITSTRING | 4 | PB_DEP_MONTKN | Token for the dependent monitoring environment related to this environment |
|  |  | .... .... |  | PB_DEP_MONTKN_HIBIT | "X'80000000" Hi Order bit of token |
| 84 | (54) | ADDRESS | 4 | PB_DEP_MIRROR_PTR | PB Dependent mirror token pointer |
| 84 | (54) | BITSTRING | 4 | PB_DEP_MIRROR_TKN | Token for dependent environment control information |
| 88 | (58) | BITSTRING | 4 | PB_SC_TKN | Service class token for the work request |
| 92 | (5C) | BITSTRING | 4 | PB_ABNORMAL_FLAGS | Abnormal flags |
| | |1 | | PB_ABNORMAL_LOCALMVS | "X'00000001" Abnormality only affects current MVS image |
| | |1. | | PB_ABNORMAL_SYSPLEX | "X'00000002" Abnormality affects all MVS images in the sysplex |
| 96 | (60) | CHARACTER | 52 | PB_WORK_ATTRIBUTES | Attributes associated with the work request |
| 96 | (60) | CHARACTER | 8 | PB_USERID | Userid associated with the work request |
| 104 | (68) | CHARACTER | 8 | PB_TRXNAME | Transaction name associated with the work request |
| 112 | (70) | CHARACTER | 8 | PB_TRXCLASS | Transaction class associated with the work request |
| 120 | (78) | CHARACTER | 8 | PB_RSVD0078 | Reserved space |
| 128 | (80) | CHARACTER | 17 | PB_SOURCELU | Source LU name associated with the work request |
| 145 | (91) | BITSTRING | 3 | PB_RSVD0091 | Reserved space |
| 148 | (94) | BITSTRING | 1 | PB_LU62TKN_FMT | Format of the LU62 token |
| | |1 | | PB_LU62FMT_LU_NO_CC_27 | |

IWMPB Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|--|------|------------|-----|-----------------------------|--|
| Dec | Hex | | | | |
| | |1. | | PB_LU62FMT_FULL_LU_NO_CC_27 | "X'01" The LU6.2 token associated with the work request is a fixed length token of 27 bytes with no conversation correlator (not even its length byte). The LU name may be 1-17 bytes. Bytes at the end of the token are padded with hexadecimal zeros, if necessary, to form a full 27 bytes. |
| | |11 | | PB_LU62FMT_FULL_LU_0_CC_28 | "X'02" The LU6.2 token associated with the work request is a fully qualified LU name (17 bytes), but no conversation correlator (not even its length byte) is provided. This format is architected to be 27 bytes long. |
| | |1.. | | PB_LU62FMT_FULL_LU_CC_36 | "X'03" The LU6.2 token associated with the work request is a fully qualified LU name (17 bytes), and the conversation correlator length byte is present and has the value 0. This format is architected to be 28 bytes long. |
|  |  | .... .... |  | PB_LU62FMT_OTHER | "X'04" The LU6.2 token associated with the work request is a fully qualified LU name (17 bytes), and the conversation correlator is provided with a length of 8 (maximum allowed). This format is architected to be 36 bytes long. |
| 148 | (94) | X'24' | 0 | PB_MAX_LU62TKN_LEN | "X'00" The LU6.2 token associated with the work request contains self-defining length fields. |
| 149 | (95) | BITSTRING | 1 | PB_RSVD0095 | "36" Maximum length of an LU6.2 token (in decimal). Reserved space |
| 150 | (96) | SIGNED | 2 | (0) | PB_AS_ID should be on a hwrds boundary |
| 150 | (96) | BITSTRING | 2 | PB_AS_ID | Address space id |
| 152 | (98) | CHARACTER | 36 | PB_LU62TKN | LU 6.2 token associated with the work request |
| 188 | (BC) | BITSTRING | 4 | PB_RSVD00BC | Reserved space |
| 192 | (C0) | CHARACTER | 8 | PB_ETOKEN | Enclave token |
| 200 | (C8) | CHARACTER | 8 | PB_BP_RESTKN | Buffer Pool resource token associated with the work request |
| 208 | (D0) | CHARACTER | 8 | PB_CF_RESTKN | Coupling Facility Structure resource token associated with the work request |
| 216 | (D8) | CHARACTER | 32 | PB_TRANS_TTOKEN | Transaction Trace Token |
| 248 | (F8) | CHARACTER | 8 | PB_RSVD00F8 | Reserved space |
| Comment | | | | | |
| PB_CLEAR_LEN EQU -PB_CLEAR_FLD - Length of section cleared | | | | | |
| ORG PB_CLEAR_FLD | | | | | |
| PB_CLEAR DS CL(PB_CLEAR_LEN) Area to be cleared for reuse | | | | | |
| Any fields added prior to PB_CLEAR_LEN (and after PB_CLEAR_FLD) | | | | | |
| will be cleared by Initialize/Relate, while fields added after | | | | | |
| PB_CLEAR_LEN will NOT be cleared. If you are changing the length | | | | | |
| of PB_CLEAR, then read the Notes section in the prolog. @PWA0230 | | | | | |
| End of Comment | | | | | |

IWMPB Cross Reference

| Name | Hex Offset | Hex Value |
|-----------------------------|------------|-----------|
| PB | 0 | |
| PB_ABNORMAL_FLAGS | 5C | |
| PB_ABNORMAL_LOCALMVS | 5C | 1 |
| PB_ABNORMAL_SYSPLEX | 5C | 2 |
| PB_ARRRTIME | 28 | |
| PB_AS_ID | 96 | |
| PB_ASSOCIATE | 5 | 40 |
| PB_BP_RESTKN | C8 | |
| PB_CF_RESTKN | D0 | |
| PB_CLEAR_FLD | 20 | |
| PB_CREATE | 0 | |
| PB_CURRENT_VERSION | 4 | 5 |
| PB_DEP_MIRROR_PTR | 54 | |
| PB_DEP_MIRROR_TKN | 54 | |
| PB_DEP_MONTKN | 50 | |
| PB_DEP_MONTKN_HIBIT | 50 | 0 |
| PB_DU | 3C | |
| PB_DU_ASCB | 38 | |
| PB_DU_SRB | 3C | 1 |
| PB_DURATION | 44 | C0 |
| PB_DURATION_BEGIN_TO_END | 44 | 80 |
| PB_DURATION_EXECUTION | 44 | 40 |
| PB_ETOKEN | C0 | |
| PB_EXSTARTTIME | 30 | |
| PB_FLAGS | 5 | |
| PB_FLAGS_MASK | 5 | C0 |
| PB_FROM_LOCALMVS | 42 | 40 |
| PB_FROM_NETWORK | 42 | 10 |
| PB_FROM_NONE | 42 | 8 |
| PB_FROM_SYSPLEX | 42 | 20 |
| PB_ID | 0 | |
| PB_ID_CONST | 0 | C24040 |
| PB_ID_VERSION | 0 | |
| PB_INIT | 42 | 80 |
| PB_LU62FMT_FULL_LU_CC_36 | 94 | 4 |
| PB_LU62FMT_FULL_LU_NO_CC_27 | 94 | 2 |
| PB_LU62FMT_FULL_LU_0_CC_28 | 94 | 3 |
| PB_LU62FMT_LU_NO_CC_27 | 94 | 1 |
| PB_LU62FMT_OTHER | 94 | 0 |
| PB_LU62TKN | 98 | |
| PB_LU62TKN_FMT | 94 | |

| Name | Hex Offset | Hex Value |
|------------------------------------|------------|-----------|
| PB_MAX_LU62TKN_LEN | 94 | 24 |
| PB_MIRROR_PTR | 14 | |
| PB_MIRROR_TKN | 14 | |
| PB_MONENV_INFO | 44 | |
| PB_NEW_LENGTH | 6 | |
| PB_OWNER_DATA | 20 | |
| PB_OWNER_TKN | 24 | |
| PB_PARENT_HOME_ASID | 4A | |
| PB_PARENT_MIRROR_PTR | 4C | |
| PB_PARENT_MIRROR_TKN | 4C | |
| PB_PARENT_MONTKN | 48 | |
| PB_PARENT_MONTKN_HIBIT | 48 | 0 |
| PB_RELATE | 42 | 1 |
| PB_REPORT_ONLY | 5 | 80 |
| PB_RSVD00BC | BC | |
| PB_RSVD00F8 | F8 | |
| PB_RSVD0018 | 18 | |
| PB_RSVD0040 | 40 | |
| PB_RSVD0045 | 45 | |
| PB_RSVD0078 | 78 | |
| PB_RSVD0091 | 91 | |
| PB_RSVD0095 | 95 | |
| PB_SC_TKN | 58 | |
| PB_SCOPE_SHARED | 42 | 4 |
| PB_SOURCELU | 80 | |
| PB_SRB_SAMEDU_NO | 3C | 1 |
| PB_SRB_SAMEDU_YES | 3C | 3 |
| PB_STATE | 41 | |
| PB_STATE_ACTIVE | 41 | 1 |
| PB_STATE_ACTIVE_APPLIC | 41 | 4 |
| PB_STATE_ACTIVE_SUBSYS | 41 | 1 |
| PB_STATE_FREE | 41 | 0 |
| PB_STATE_IDLE | 41 | 3 |
| PB_STATE_READY | 41 | 2 |
| PB_STATE_WAITING_BUFFER_POOL_CF | 41 | F2 |
| PB_STATE_WAITING_BUFFER_POOL_CF_IO | 41 | F3 |
| PB_STATE_WAITING_BUFFER_POOL_IO | 41 | F1 |
| PB_STATE_WAITING_CF_IO | 41 | F4 |

IWMPB Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|--------------------------------------|---------------|--------------|--------------------|---------------|--------------|
| PB_STATE_WAITING_CONV | 41 | F8 | PB_SWITCH_NETWORK | 43 | 3 |
| PB_STATE_WAITING_DISTRIB | 41 | F5 | PB_SWITCH_SYSPLEX | 43 | 2 |
| PB_STATE_WAITING_IO | 41 | FF | PB_TRANS_TTOKEN | D8 | |
| PB_STATE_WAITING_LATCH | 41 | F7 | PB_TRXCLASS | 70 | |
| PB_STATE_WAITING_LOCK | 41 | FE | PB_TRXNAME | 68 | |
| PB_STATE_WAITING_MISC | 41 | FD | PB_USERID | 60 | |
| PB_STATE_WAITING_OTHER_PRODUCT | 41 | FC | PB_VERSION | 4 | 1 |
| PB_STATE_WAITING_REGIST_TO_WORKTABLE | 41 | E3 | PB_VERSION1 | 4 | 2 |
| PB_STATE_WAITING_REGULAR_THREAD | 41 | E2 | PB_VERSION2 | 4 | 3 |
| PB_STATE_WAITING_SESS_LOCALMVS | 41 | F9 | PB_VERSION3 | 4 | 4 |
| PB_STATE_WAITING_SESS_NETWORK | 41 | FB | PB_VERSION4 | 4 | 5 |
| PB_STATE_WAITING_SESS_SYSPLEX | 41 | FA | PB_VERSION5 | 4 | |
| PB_STATE_WAITING_SSL_THREAD | 41 | E1 | PB_WORK_ATTRIBUTES | 60 | |
| PB_STATE_WAITING_TIMER | 41 | F6 | PB_WORKDEF | 42 | |
| PB_STATE_WAITING_TYPE1 | 41 | D1 | | | |
| PB_STATE_WAITING_TYPE10 | 41 | DA | | | |
| PB_STATE_WAITING_TYPE11 | 41 | DB | | | |
| PB_STATE_WAITING_TYPE12 | 41 | DC | | | |
| PB_STATE_WAITING_TYPE13 | 41 | DD | | | |
| PB_STATE_WAITING_TYPE14 | 41 | DE | | | |
| PB_STATE_WAITING_TYPE15 | 41 | DF | | | |
| PB_STATE_WAITING_TYPE2 | 41 | D2 | | | |
| PB_STATE_WAITING_TYPE3 | 41 | D3 | | | |
| PB_STATE_WAITING_TYPE4 | 41 | D4 | | | |
| PB_STATE_WAITING_TYPE5 | 41 | D5 | | | |
| PB_STATE_WAITING_TYPE6 | 41 | D6 | | | |
| PB_STATE_WAITING_TYPE7 | 41 | D7 | | | |
| PB_STATE_WAITING_TYPE8 | 41 | D8 | | | |
| PB_STATE_WAITING_TYPE9 | 41 | D9 | | | |
| PB_SUBSYS_TYPE | 8 | | | | |
| PB_SUBSYSNM | C | | | | |
| PB_SWITCH_INFO | 43 | | | | |
| PB_SWITCH_LOCALMVS | 43 | 1 | | | |

IWMRENF1 Programming Interface information

Programming Interface information

IWMRENF1

End of Programming Interface information

IWMRENF1 Heading Information

Common Name: ENF signal 41 qualifiers
Macro ID: IWMRENF1
DSECT Name: WLMENF1
Owning Component: WLM (SCWLM)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: Any
 Key: 0
 Residency: Above 16M line
Size: 4 bytes
Created by: Caller
Pointed to by: N/A
Serialization: None
Function: Contains qualifiers for ENF signal 41

IWMRENF1 Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | WLMENF1 | ENF signal 41 qualifiers |
| 0 | (0) | BITSTRING | 1 | WLME1 | Byte 1 |
| 1 | (1) | BITSTRING | 1 | WLME2 | Byte 2 |
| 2 | (2) | BITSTRING | 1 | WLME3 | Byte 3 |
| 3 | (3) | BITSTRING | 1 | WLME4 | Byte 4 |
|  |  | .... .... |  | WLMENF11 | "X'80000000" VARY WLM, POLICY= command issued in goal mode |
|  |  | .... .... |  | WLMENF12 | "X'40000000" VARY WLM, POLICY= command completed in goal mode |
|  |  | .... .... |  | WLMENF13 | "X'20000000" VARY WLM, POLICY= command failed in goal mode |
| 3 | (3) | BITSTRING | 0 | WLMENF21 | "X'00800000" VARY WLM, POLICY= command issued in compatibility mode |
| 3 | (3) | BITSTRING | 0 | WLMENF22 | "X'00400000" VARY WLM, POLICY= command completed in compatibility mode |
| 3 | (3) | BITSTRING | 0 | WLMENF23 | "X'00200000" VARY WLM, POLICY= command failed in compatibility mode |
| 3 | (3) | BITSTRING | 0 | WLMENF31 | "X'00080000" Workload Activity reporting failed and has begun recovery |
| 3 | (3) | BITSTRING | 0 | WLMENF32 | "X'00040000" Workload Activity reporting recovery was successful |
| 3 | (3) | BITSTRING | 0 | WLMENF33 | "X'00020000" Workload Activity reporting recovery was not successful |
| | | 1... | | WLMENF41 | "X'00000080" Install of new service definition was successful |

IWMRENF1 Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------|------------|-----------|-------|------------|-----------|
| WLMENF1 | 0 | | WLME2 | 1 | |
| WLMENF11 | 3 | 0 | WLME3 | 2 | |
| WLMENF12 | 3 | 0 | WLME4 | 3 | |
| WLMENF13 | 3 | 0 | | | |
| WLMENF21 | 3 | 800000 | | | |
| WLMENF22 | 3 | 400000 | | | |
| WLMENF23 | 3 | 200000 | | | |
| WLMENF31 | 3 | 80000 | | | |
| WLMENF32 | 3 | 40000 | | | |
| WLMENF33 | 3 | 20000 | | | |
| WLMENF41 | 3 | 80 | | | |
| WLME1 | 0 | | | | |

IWMRENF2 Programming Interface information

Programming Interface information

IWMRENF2

End of Programming Interface information

IWMRENF2 Heading Information

Common Name: ENF signal 56 parameter list
Macro ID: IWMRENF2
DSECT Name: WLMENF56
Owning Component: WLM (SCWLM)
Eye-Catcher ID: NONE
Storage Attributes: Key: 0
 Residency: Above 16M line, in the private storage of the address space in which the listen exit receives control
Size: See assembly listing
Created by: WLM
Pointed to by: First word of the parameter list passed to the listen exit
Serialization: None
Function: Maps the parameter list passed to ENF listen exits exits that are listening for event code 56.
 Qualifiers:
 - WLMENF56_Qual_Reset:
 A job has been successfully reset through the RESET operator command or via the IWMRESET-service.
 - WLMENF56_Qual_EnclaveReset:
 An enclave has been successfully reset via the IWMERES-service.

IWMRENF2 Map

| Offsets | | | | | |
|---------|------|------------|-----|---------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | WLMENF56 | ENF event 56 parameters |
| 0 | (0) | BITSTRING | 4 | WLMENF56_QUAL | Qualifier code - see below |
| 4 | (4) | CHARACTER | 8 | WLMENF56_JOBNAME | Name of job that was reset. Blank, in case of enclave reset qualifier code. |
| 12 | (C) | CHARACTER | 8 | WLMENF56_JOBID | JES job id of the job that was reset. Contains blanks if the job is not running under JES. Available with JES2 4.1.0, JES3 4.2.1, and later releases. Blank, in case of enclave reset qualifier code. |
| 20 | (14) | SIGNED | 4 | WLMENF56_ENTRY_TIME | Entry time in hundredths of a second since midnight. For a job, this is the program entry time or zero, if the job is not running under JES. Available with JES2 4.1.0, JES3 4.2.1, and later releases. For an enclave, this is the time the enclave was created. |
| 24 | (18) | CHARACTER | 4 | WLMENF56_ENTRY_DATE | Entry date in the form 0ccyydddF. For a job, this is the program entry data or zero, if the job is not running under JES. Available with JES2 4.1.0, JES3 4.2.1, and later releases. For an enclave this is the date the enclave was created. |
| 28 | (1C) | CHARACTER | 8 | WLMENF56_OPERATOR | Operator ID that reset the job or enclave, if available |
| 36 | (24) | BITSTRING | 1 | WLMENF56_FLAGS | Indicators |
| | | 1... | | WLMENF56_SRVCLASS | "X'80" The job's service class was reset |
| | | .1.. | | WLMENF56_PERFORM | "X'40" The job's performance group was reset |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|------------------|------|------------|-----|-----------------------------|---|
| Dec | Hex | | | | |
| | | ..1. | | WLMENF56_QUIESCE | "X'20" The job was quiesced |
| | | ...1 | | WLMENF56_RESUME | "X'10" The job was resumed |
| | | 1... | | WLMENF56_ENCLAVESRVCLASS | "X'08" The enclave service class was reset |
| | |1.. | | WLMENF56_ENCLAVEQUIESCE | "X'04" The enclave was quiesced |
| | |1. | | WLMENF56_ENCLAVERESUME | "X'02" The enclave was resumed |
| 37 | (25) | BITSTRING | 1 | WLMENF56_FLAGS2 | Additional characteristics |
| | | 1... | | WLMENF56_INDEPENDENTENCLAVE | "X'80" On = Original independent enclave |
| 38 | (26) | SIGNED | 1 | WLMENF56_VERSION | Version. Zero represents initial version. Current version='01'x |
| 39 | (27) | CHARACTER | 1 | WLMENF56_RSV | Reserved for future use |
| 40 | (28) | CHARACTER | 8 | WLMENF56_OLDSRV | Service class name that was associated with the job or the enclave before it was reset. Contains blanks if the system is in compatibility mode. |
| 48 | (30) | CHARACTER | 8 | WLMENF56_NEWSRV | Service class that was assigned to the job or the enclave. Contains blanks if the system is in compatibility mode. |
| 56 | (38) | SIGNED | 2 | WLMENF56_OLDPGN | Performance group that was associated with the job before it was reset. Contains zero if the system is in goal mode or in case of enclave reset qualifier code. |
| 58 | (3A) | SIGNED | 2 | WLMENF56_NEWPGN | Performance group that was assigned to the job. Contains zero if the system is in goal mode or in case of enclave reset qualifier code. |
| 60 | (3C) | BITSTRING | 8 | WLMENF56_STOKEN | STOKEN of the address space in which the job is running. Zero, in case of enclave reset qualifier code. |
| 68 | (44) | CHARACTER | 8 | WLMENF56_ENCLAVETOKEN | Enclave token. Zero, in case of job reset qualifier code. |
| 76 | (4C) | CHARACTER | 8 | WLMENF56_ENCLAVEOWNER | Name of the address space that owns the enclave. Blank, in case of job reset qualifier code. |
| Comment | | | | | |
| Version numbers | | | | | |
| End of Comment | | | | | |
| 76 | (4C) | X'1' | 0 | WLMENF56_CURRENTVERSION | "1" Supports enclave reset |
| Comment | | | | | |
| Qualifier values | | | | | |
| End of Comment | | | | | |
|  |  | .... .... |  | WLMENF56_QUAL_RESET | "X'80000000" A job was reset using the RESET system command or IWMRESET macro |
|  |  | .... .... |  | WLMENF56_QUAL_ENCLAVERESET | "X'40000000" An enclave was reset using the IWMERES-macro |
| 76 | (4C) | X'54' | 0 | WLMENF56_LEN | "*-WLMENF56" |

IWMREN2 Cross Reference

IWMREN2 Cross Reference

| Name | Hex Offset | Hex Value |
|-----------------------------|---------------|--------------|
| WLMENF56 | 0 | |
| WLMENF56_CURRENTVERSION | 4C | 1 |
| WLMENF56_ENCLAVEOWNER | 4C | |
| WLMENF56_ENCLAVEQUIESCE | 24 | 4 |
| WLMENF56_ENCLAVERESUME | 24 | 2 |
| WLMENF56_ENCLAVESRVCLASS | 24 | 8 |
| WLMENF56_ENCLAVETOKEN | 44 | |
| WLMENF56_ENTRY_DATE | 18 | |
| WLMENF56_ENTRY_TIME | 14 | |
| WLMENF56_FLAGS | 24 | |
| WLMENF56_FLAGS2 | 25 | |
| WLMENF56_INDEPENDENTENCLAVE | 25 | 80 |
| WLMENF56_JOBID | C | |
| WLMENF56_JOBNAME | 4 | |
| WLMENF56_LEN | 4C | 54 |
| WLMENF56_NEWPGN | 3A | |
| WLMENF56_NEWSRV | 30 | |
| WLMENF56_OLDPGN | 38 | |
| WLMENF56_OLDSRV | 28 | |
| WLMENF56_OPERATOR | 1C | |
| WLMENF56_PERFORM | 24 | 40 |
| WLMENF56_QUAL | 0 | |
| WLMENF56_QUAL_ENCLAVERESET | 4C | 0 |
| WLMENF56_QUAL_RESET | 4C | 0 |
| WLMENF56 QUIESCE | 24 | 20 |
| WLMENF56_RESUME | 24 | 10 |
| WLMENF56_RSV | 27 | |
| WLMENF56_SRVCLASS | 24 | 80 |
| WLMENF56_STOKEN | 3C | |
| WLMENF56_VERSION | 26 | |

IWMSEVRD Programming Interface information

Programming Interface information

IWMSEVRD

End of Programming Interface information

IWMSERVD Heading Information

Common Name: WLM Service Definition mapping
Macro ID: IWMSERVD
DSECT Name: SERVDHDR
Owning Component: Workload Manager (SCWLM)
Eye-Catcher ID: 'SERVD '
 Offset: 0
 Length: CHAR(6)
Storage Attributes: Subpool: Any
 Key: 0
 Residency: Above 16M line
Size: Determined at run time
Created by: Caller
Pointed to by: IWMDINST, IWMDEXTR parameter lists
Serialization: None
Function: Contains service definition information for use in the IWMDINST and IWMDEXTR services

IWMSERVD Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | SERVDHDR | |
| 0 | (0) | CHARACTER | 6 | SERVD_EYECATCHER | Eyecatcher is SERVD |
| 6 | (6) | SIGNED | 1 | SERVD_VERSION | WLM version number |
| 7 | (7) | SIGNED | 1 | | Reserved |
| 8 | (8) | SIGNED | 2 | SERVD_HDR_SIZE | Size in bytes of header section |
| 10 | (A) | SIGNED | 2 | | Reserved |
| 12 | (C) | SIGNED | 4 | SERVD_SIZE | Size in bytes of the whole SERVD structure - including the header and each of SVDEF, SVDCCR, SVNPA, SVAEA, SVSEA |
| 16 | (10) | SIGNED | 4 | SERVD_SVDEF_OFF | Offset of SVDEF |
| 20 | (14) | SIGNED | 4 | SERVD_SVDCCR_OFF | Offset of SVDCCR |
| 24 | (18) | SIGNED | 4 | SERVD_SVNPA_OFF | Offset of SVNPA |
| 28 | (1C) | SIGNED | 4 | SERVD_SVAEA_OFF | Offset of SVAEA |
| 32 | (20) | SIGNED | 4 | SERVD_SVSEA_OFF | Offset of SVSEA |
| 36 | (24) | CHARACTER | 28 | | Stay on doubleword boundary |

Comment

Constants

End of Comment

| | | | | | |
|----|------|-------|---|-------------------|---|
| 36 | (24) | X'1' | 0 | SERVD_VER520 | "1" SERVD version indicating MVS SP 5.2.0 |
| 36 | (24) | X'3' | 0 | SERVD_VER530 | "3" SERVD version indicating OS/390 V1R1 |
| 36 | (24) | X'4' | 0 | SERVD_VER604 | "4" SERVD version indicating OS/390 V1R4 |
| 36 | (24) | X'4' | 0 | SERVD_CURRENT_VER | "4" Current WLM version |
| 36 | (24) | X'40' | 0 | SERVDHDR_LEN | **-SERVDHDR" |

IWMSEVRD Cross Reference

| Name | Hex Offset | Hex Value |
|-------------------|---------------|--------------|
| SERVD_CURRENT_VER | 24 | 4 |
| SERVD_EYECATCHER | 0 | |
| SERVD_HDR_SIZE | 8 | |
| SERVD_SIZE | C | |
| SERVD_SVAEA_OFF | 1C | |
| SERVD_SVDCR_OFF | 14 | |
| SERVD_SVDEF_OFF | 10 | |
| SERVD_SVNPA_OFF | 18 | |
| SERVD_SVSEA_OFF | 20 | |
| SERVD_VERSION | 6 | |
| SERVD_VER520 | 24 | 1 |
| SERVD_VER530 | 24 | 3 |
| SERVD_VER604 | 24 | 4 |
| SERVDHDR | 0 | |
| SERVDHDR_LEN | 24 | 40 |

IWMSET Programming Interface information

Programming Interface information

IWMSET

The following fields are **NOT** programming interface information:

- SET_RES_FLAG1
- SET_SES_FLAG2

End of Programming Interface information

IWMSET Heading Information

Common Name: WLM Scheduling Environments Table
Macro ID: IWMSET
DSECT Name: SET SETSE SETSR SETRE SETSYS SETSYH SETSES SETRES
Owning Component: Workload Manager (SCWLM)
Eye-Catcher ID: IWMSET
 Offset: 0
 Length: 8
Storage Attributes: Subpool: Any
 Key: Any
 Residency: Anywhere
Size: Determined at run time
Created by: Caller of the IWMSEQRY service
Pointed to by: ANSAREA parameter of the IWMSEQRY service
Serialization: None
Function: Describes scheduling environments, resources, and their status on each system in a sysplex.

IWMSET Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-----------------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | SETHDR | |
| 0 | (0) | CHARACTER | 8 | SET_HDR_EYECATCHER | IWMSET.29: Eye catcher |
| 8 | (8) | SIGNED | 1 | SET_HDR_WLM_VERSION_NUMBER | IWMSET.41: Version number of SET |
| 9 | (9) | SIGNED | 1 | SET_HDR_RESERVED1 | IWMSET.1180: Reserved |
| 10 | (A) | SIGNED | 2 | SET_HDR_SIZE_OF_HEADER | IWMSET.75: Size of this header section |
| 12 | (C) | SIGNED | 4 | SET_HDR_SIZE_OF_WHOLE_SET | IWMSET.63: Size of the whole scheduling environment table, not including any system status areas |
| 16 | (10) | BITSTRING | 8 | SET_HDR_TOD_VALUE | IWMSET.67: Time/date (STCK format) that the service definition was installed. The value matches field SVPOLTDI in IWMSVPOL. |
| 24 | (18) | SIGNED | 4 | SET_HDR_SIZE_OF_A_SYS_STATUS_AREA | IWMSET.54: Size of each system status area |
| 28 | (1C) | SIGNED | 4 | SET_HDR_RESERVED | IWMSET.176: Reserved |
| 60 | (3C) | CHARACTER | 40 | SET_HDR_OFFSETS (0) | IWMSET.61: SET section offsets area |
| 60 | (3C) | CHARACTER | 8 | SET_HDR_SE_SECTION (0) | IWMSET.48: Scheduling environment section |
| 60 | (3C) | SIGNED | 4 | SET_OFFSET_SE | IWMSET.38: Offset of scheduling environment section (SETSE) |
| 64 | (40) | SIGNED | 2 | SET_NUMBER_SE | IWMSET.892: Number of scheduling environment entries |
| 66 | (42) | SIGNED | 2 | SET_SIZE_SE | IWMSET.898: Size of a scheduling environment entry |
| 68 | (44) | CHARACTER | 8 | SET_HDR_SR_SECTION (0) | IWMSET.904: Scheduling environment- /resource relationships section |
| 68 | (44) | SIGNED | 4 | SET_OFFSET_SR | IWMSET.907: Offset of scheduling environment- /resource relationship section (SETSR) |

| Offsets | | | | | |
|---------|------|------------|-----|---------------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 72 | (48) | SIGNED | 2 | SET_NUMBER_SR | IWMSET.913: Number of scheduling environment- /resource relationship entries |
| 74 | (4A) | SIGNED | 2 | SET_SIZE_SR | IWMSET.919: Size of a scheduling environment- /resource relationship entry |
| 76 | (4C) | CHARACTER | 8 | SET_HDR_RE_SECTION (0) | IWMSET.925: Resource section |
| 76 | (4C) | SIGNED | 4 | SET_OFFSET_RE | IWMSET.928: Offset of resource section (SETRE) |
| 80 | (50) | SIGNED | 2 | SET_NUMBER_RE | IWMSET.934: Number of resource entries |
| 82 | (52) | SIGNED | 2 | SET_SIZE_RE | IWMSET.940: Size of a resource entry |
| 84 | (54) | CHARACTER | 8 | SET_HDR_SYS_SECTION (0) | IWMSET.947: System section |
| 84 | (54) | SIGNED | 4 | SET_OFFSET_SYS | IWMSET.950: Offset of system section (SETSYS) |
| 88 | (58) | SIGNED | 2 | SET_NUMBER_SYS | IWMSET.956: Number of system entries |
| 90 | (5A) | SIGNED | 2 | SET_SIZE_SYS | IWMSET.962: Size of a system entry |
| 92 | (5C) | CHARACTER | 8 | SET_HDR_RESERVED_SECTION (0) | IWMSET.969: Reserved slots |
| 92 | (5C) | SIGNED | 4 | SET_OFFSET_RESERVED | IWMSET.972: Reserved offset |
| 96 | (60) | SIGNED | 2 | SET_NUMBER_RESERVED | IWMSET.978: Reserved number |
| 98 | (62) | SIGNED | 2 | SET_SIZE_RESERVED | IWMSET.984: Reserved size |
| 98 | (62) | X'64' | 0 | SETHDR_LEN | "*-SETHDR" |

| Offsets | | | | | |
|---------|------|------------|-----|----------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | SETSE | |
| 0 | (0) | CHARACTER | 56 | SET_SE_DEFINITION (0) | IWMSET.332: SE definition |
| 0 | (0) | CHARACTER | 16 | SET_SE_SCHENV_NAME | IWMSET.336: Scheduling environment name |
| 16 | (10) | CHARACTER | 32 | SET_SE_DESCRIPTION | IWMSET.288: Scheduling environment description |
| 48 | (30) | CHARACTER | 8 | SET_SE_RESERVED_DEFINITION | IWMSET.354: Reserved |
| 56 | (38) | CHARACTER | 16 | SET_SE_OFFSETS (0) | IWMSET.365: SE offsets |
| 56 | (38) | SIGNED | 4 | SET_SE_SR_OFFSET | IWMSET.372: Offset of the first scheduling environment- /resource relationship entry for this scheduling environment from the beginning of the SET |
| 60 | (3C) | SIGNED | 4 | SET_SE_SR_COUNT | IWMSET.378: Number of scheduling environment- /resource relationship entries for this scheduling environment |
| 64 | (40) | SIGNED | 4 | SET_SE_OFFSETS_RESERVED | IWMSET.1143: SE reserved offsets |
| 72 | (48) | X'48' | 0 | SETSE_LEN | "*-SETSE" |

| Offsets | | | | | |
|---------|-----|------------|-----|------------|-------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | SETSR | |

IWMSET Map

| Offsets | | | | | |
|---------|------|----------------------|-----|---|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | CHARACTER | 20 | SET_SR_DEFINITION (0) | IWMSET.401: Definition section |
| 0 | (0) | SIGNED | 4 | SET_SR_SE_INDEX | IWMSET.807: Index of the scheduling environment entry within the SET SE section |
| 4 | (4) | SIGNED | 4 | SET_SR_SE_OFFSET | IWMSET.396: Offset of the scheduling environment entry from the beginning of the SET |
| 8 | (8) | BITSTRING 1... .. | 1 | SET_SR_FLAG1 (0) SET_SR_LAST_ONE_FOR_SE | IWMSET.313: Flags "X'80" IWMSET.319: Indicates this is the last SR entry for a scheduling environment |
| 9 | (9) | SIGNED | 1 | SET_SR_RESOURCE_STATE | IWMSET.840: Required state of the resource for the scheduling environment to be available |
| 10 | (A) | CHARACTER | 1 | SET_SR_RESERVED_DEFINITION1 | IWMSET.408: SR section reserved |
| 12 | (C) | CHARACTER | 8 | SET_SR_RESERVED_DEFINITION2 | IWMSET.1240: Reserved |
| 20 | (14) | CHARACTER | 16 | SET_SR_OFFSETS (0) | IWMSET.427: SR offsets section |
| 20 | (14) | SIGNED | 4 | SET_SR_RE_INDEX | IWMSET.885: Index of the resource entry within the SETRE section |
| 24 | (18) | SIGNED | 4 | SET_SR_RE_OFFSET | IWMSET.435: Offset of the resource entry from the beginning of the SET |
| 28 | (1C) | SIGNED | 4 | SET_SR_OFFSETS_RESERVED | IWMSET.442: SR reserved offsets |
| 36 | (24) | X'24' | 0 | SETSR_LEN | "*-SETSR" |

| Offsets | | | | | |
|---------|------|------------|-----|-----------------------------|----------------------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | SETRE | |
| 0 | (0) | CHARACTER | 56 | SET_RE_DEFINITION (0) | IWMSET.476: RE definition |
| 0 | (0) | CHARACTER | 16 | SET_RE_RESOURCE_NAME | IWMSET.484: Resource name |
| 16 | (10) | CHARACTER | 32 | SET_RE_RESOURCE_DESCRIPTION | IWMSET.490: Resource description |
| 48 | (30) | CHARACTER | 8 | SET_RE_RESERVED_DEFINITION | IWMSET.502: Reserved |
| 48 | (30) | X'38' | 0 | SETRE_LEN | "*-SETRE" |

| Offsets | | | | | |
|---------|------|------------|-----|-----------------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | SETSYS | |
| 0 | (0) | CHARACTER | 16 | SET_SYS_DEFINITION (0) | IWMSET.536: SYS definition |
| 0 | (0) | CHARACTER | 8 | SET_SYS_NAME | IWMSET.544: System name. If this field contains binary zeroes, this is an unused entry that contains no status information. |
| 8 | (8) | CHARACTER | 8 | SET_SYS_RESERVED_DEFINITION | IWMSET.550: Reserved |
| 16 | (10) | ADDRESS | 4 | SET_SYS_STATUS_PTR | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|--|
| Dec | Hex | | | | |
| 16 | (10) | X'14' | 0 | SETSYS_LEN | IWMSET.568: Address of the system status header (SETSYH) for this system, if there is a system name in the SET_SYS_NAME field "-SETSYS" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-------------------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | SETSYH | |
| 0 | (0) | CHARACTER | 8 | SET_SYS_HDR_EYECATCHER | IWMSET.846: Eye catcher |
| 8 | (8) | CHARACTER | 32 | SET_SYS_HDR_CONTROL (0) | IWMSET.611: System status header control information |
| 8 | (8) | BITSTRING | 8 | SET_SYS_HDR_TOD_VALUE | IWMSET.234: Time stamp of when the service number definition was installed. This is a copy of the SET_HDR_TOD_VALUE |
| 16 | (10) | BITSTRING | 8 | SET_SYS_HDR_MODIFIED | IWMSET.1165: A time stamp for the most recent modification to status information in a SETSES or SETRES entry |
| 24 | (18) | SIGNED | 1 | SET_SYS_HDR_WLM_VERSION_NUMBER | IWMSET.318: Version number of system status header |
| 25 | (19) | SIGNED | 1 | SET_SYS_HDR_CONTROL_RESERVED | IWMSET.1171: Reserved |
| 26 | (1A) | SIGNED | 2 | SET_SYS_HDR_SIZE_OF_HEADER | IWMSET.242: Size of the system status header |
| 28 | (1C) | SIGNED | 4 | SET_SYS_HDR_WHOLE_SIZE | IWMSET.292: Size of the system status area including this header, all SETSES entries and all SETRES entries |
| 32 | (20) | SIGNED | 4 | SET_SYS_HDR_CONTROL_RESERVED2 | IWMSET.619: Reserved |
| 40 | (28) | CHARACTER | 24 | SET_SYS_HDR_OFFSETS_AREA (0) | IWMSET.629: System status header offsets area |
| 40 | (28) | CHARACTER | 8 | SET_SYS_HDR_SES_SECTION (0) | IWMSET.637: Scheduling environment status section |
| 40 | (28) | SIGNED | 4 | SET_OFFSET_SES | IWMSET.640: Offset of the scheduling environment status section (SETSES) |
| 44 | (2C) | SIGNED | 2 | SET_NUMBER_SES | IWMSET.646: Number of scheduling environment status entries |
| 46 | (2E) | SIGNED | 2 | SET_SIZE_SES | IWMSET.652: Size of a scheduling environment status entry |
| 48 | (30) | CHARACTER | 8 | SET_SYS_HDR_RES_SECTION (0) | IWMSET.658: Resource status section |
| 48 | (30) | SIGNED | 4 | SET_OFFSET_RES | IWMSET.661: Offset of the resource status entries (SETRES) |
| 52 | (34) | SIGNED | 2 | SET_NUMBER_RES | IWMSET.667: Number of resource status entries |
| 54 | (36) | SIGNED | 2 | SET_SIZE_RES | IWMSET.673: Size of a resource status entry |
| 56 | (38) | CHARACTER | 8 | SET_SYS_HDR_RESERVED_SECTION (0) | IWMSET.680: Reserved slots |
| 56 | (38) | SIGNED | 4 | SET_OFFSET_RESERVED1 | IWMSET.683: Reserved offset |
| 60 | (3C) | SIGNED | 2 | SET_NUMBER_RESERVED1 | IWMSET.689: Reserved number |
| 62 | (3E) | SIGNED | 2 | SET_SIZE_RESERVED1 | IWMSET.695: Reserved size |
| 64 | (40) | SIGNED | 4 | SET_SYS_HDR_RESERVED | IWMSET.1044: Reserved |

IWMSET Map

| Offsets | | | | | |
|---------|------|------------|-----|------------|-------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 80 | (50) | X'50' | 0 | SETSYH_LEN | ** -SETSYH" |

| Offsets | | | | | |
|---------|-----|------------|-----|-----------------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | SETSES | |
| 0 | (0) | CHARACTER | 4 | SET_SES_DEFINITION (0) | IWMSET.745: SES definition |
| 0 | (0) | SIGNED | 4 | SET_SES_SE_INDEX | IWMSET.753: Index of the scheduling environment entry within the SETSE section of the definition area. SETSES entries correspond positionally to SETSE entries (for example the third SETSES entry corresponds to the third SETSE entry). The index is here primarily as a debugging aid, such as to detect an overlay. |
| 4 | (4) | CHARACTER | 12 | SET_SES_STATUS (0) | IWMSET.1241: SES status |
| 4 | (4) | BITSTRING | 1 | SET_SES_FLAG1 (0) | IWMSET.759: Flag 1 |
| | | 1... .. | | SET_SES_AVAILABLE | "X'80" IWMSET.765: Indicates the scheduling environment is available |
| 5 | (5) | BITSTRING | 1 | SET_SES_FLAG2 (0) | IWMSET.350: Flag 2 |
| | | 1... .. | | SET_SES_REQUIRES_ENF | "X'80" IWMSET.1270: The scheduling environment has had its status changed (either SET_SES_AVAILABLE was set or reset) and we must notify any users interested in scheduling environments via ENF 57 |
| | | .1... .. | | SET_SES_REQUIRES_REC_ENF | "X'40" IWMSET.730: The scheduling environment has had its status changed. Similar to SET_SES_REQ- UIRES_ENF but set in WLM recovery paths. |
| 6 | (6) | BITSTRING | 2 | SET_SES_RESERVED | IWMSET.771: Reserved |
| 8 | (8) | CHARACTER | 8 | SET_SES_RESERVED_DEFINITION | IWMSET.780: Reserved |
| 8 | (8) | X'10' | 0 | SETSES_LEN | ** -SETSES" |

| Offsets | | | | | |
|---------|-----|------------|-----|---------------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | SETRES | |
| 0 | (0) | CHARACTER | 4 | SET_RES_DEFINITION (0) | IWMSET.815: RES definition |
| 0 | (0) | SIGNED | 4 | SET_RES_RE_INDEX | IWMSET.823: Index of the resource entry within the SETRE section of the definition area. SETRES entries correspond positionally to SETRE entries (for example the fourth SETRES entry corresponds to the fourth SETRE entry). The index is here primarily as a debugging aid, such as to detect an overlay. |
| 4 | (4) | CHARACTER | 12 | SET_RES_STATUS (0) | IWMSET.415: RES status |
| 4 | (4) | SIGNED | 1 | SET_RES_STATE | IWMSET.829: Current state of the resource |
| 5 | (5) | BITSTRING | 1 | SET_RES_FLAG1 (0) | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---|-----|------------|-----|----------------------------------|--|
| Dec | Hex | | | | |
| | | 1... .. | | SET_RES_MODIFICATION_IN_PROGRESS | IWMSET.853: Flag 1 |
| 6 | (6) | BITSTRING | 2 | SET_RES_RESERVED | "X'80" IWMSET.1351: Indicates that a F WLM,RESOURCE or IWMSESET request is in progress |
| 8 | (8) | CHARACTER | 8 | SET_RES_RESERVED_DEFINITION | IWMSET.1005: Reserved |
| | | | | | IWMSET.862: Reserved |
| Comment | | | | | |
| IWMSET.102: SET eyecatcher - 'IWMSET' | | | | | |
| End of Comment | | | | | |
| 8 | (8) | X'4' | 0 | IWMSET_LEVEL004 | "4" |
| Comment | | | | | |
| IWMSET.120: WLM JBB6604 version | | | | | |
| End of Comment | | | | | |
| 8 | (8) | X'4' | 0 | IWMSET_VER604 | "4" |
| Comment | | | | | |
| IWMSET.129: Current version level used when checking functionality within WLM product | | | | | |
| End of Comment | | | | | |
| 8 | (8) | X'4' | 0 | IWMSET_CURRENT_VER | "4" |
| Comment | | | | | |
| IWMSET.601: SET_SR_RESOURCE_STATE that indicates resource is desired to be ON | | | | | |
| End of Comment | | | | | |
| 8 | (8) | X'4' | 0 | SET_SR_ON | "4" |
| Comment | | | | | |
| IWMSET.1394: SET_RES_STATE that indicates resource is ON | | | | | |
| End of Comment | | | | | |
| 8 | (8) | X'4' | 0 | SET_RES_ON | "4" |
| Comment | | | | | |
| IWMSET.1371: SET_SR_RESOURCE_STATE that indicates resource is desired to be OFF | | | | | |
| End of Comment | | | | | |
| 8 | (8) | X'8' | 0 | SET_SR_OFF | "8" |
| Comment | | | | | |
| IWMSET.1403: SET_RES_STATE that indicates resource is OFF | | | | | |
| End of Comment | | | | | |
| 8 | (8) | X'8' | 0 | SET_RES_OFF | "8" |

IWMSET Cross Reference

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---|-----|------------|-----|-----------------|-------------|
| Dec | Hex | | | | |
| Comment | | | | | |
| IWMSET.1390: SET_SR_RESOURCE_STATE that is reserved | | | | | |
| End of Comment | | | | | |
| 8 | (8) | X'C' | 0 | SET_SR_RESERVED | "12" |
| Comment | | | | | |
| IWMSET.1357: SET_RES_STATE that indicates resource is RESET | | | | | |
| End of Comment | | | | | |
| 8 | (8) | X'C' | 0 | SET_RES_RESET | "12" |
| 8 | (8) | X'10' | 0 | SETRES_LEN | "*-SETRES" |

IWMSET Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|-----------------------------------|------------|-----------|----------------------------------|------------|-----------|
| IWMSET_CURRENT_VER | 8 | 4 | SET_NUMBER_SE | 40 | |
| IWMSET_LEVEL004 | 8 | 4 | SET_NUMBER_SES | 2C | |
| IWMSET_VER604 | 8 | 4 | SET_NUMBER_SR | 48 | |
| SET_HDR_EYECATCHER | 0 | | SET_NUMBER_SYS | 58 | |
| SET_HDR_OFFSETS | 3C | | SET_OFFSET_RE | 4C | |
| SET_HDR_RE_SECTION | 4C | | SET_OFFSET_RES | 30 | |
| SET_HDR_RESERVED | 1C | | SET_OFFSET_RESERVED | 5C | |
| SET_HDR_RESERVED_SECTION | 5C | | SET_OFFSET_RESERVED1 | 38 | |
| SET_HDR_RESERVED1 | 9 | | SET_OFFSET_SE | 3C | |
| SET_HDR_SE_SECTION | 3C | | SET_OFFSET_SES | 28 | |
| SET_HDR_SIZE_OF_A_SYS_STATUS_AREA | 18 | | SET_OFFSET_SR | 44 | |
| SET_HDR_SIZE_OF_HEADER | A | | SET_OFFSET_SYS | 54 | |
| SET_HDR_SIZE_OF_WHOLE_SET | C | | SET_RE_DEFINITION | 0 | |
| SET_HDR_SR_SECTION | 44 | | SET_RE_RESERVED_DEFINITION | 30 | |
| SET_HDR_SYS_SECTION | 54 | | SET_RE_RESOURCE_DESCRIPTION | 10 | |
| SET_HDR_TOD_VALUE | 10 | | SET_RE_RESOURCE_NAME | 0 | |
| SET_HDR_WLM_VERSION_NUMBER | 8 | | SET_RES_DEFINITION | 0 | |
| SET_NUMBER_RE | 50 | | SET_RES_FLAG1 | 5 | |
| SET_NUMBER_RES | 34 | | SET_RES_MODIFICATION_IN_PROGRESS | 5 | 80 |
| SET_NUMBER_RESERVED | 60 | | SET_RES_OFF | 8 | 8 |
| SET_NUMBER_RESERVED1 | 3C | | SET_RES_ON | 8 | 4 |
| | | | SET_RES_RE_INDEX | 0 | |

| Name | Hex Offset | Hex Value |
|-----------------------------|------------|-----------|
| SET_RES_RESERVED | 6 | |
| SET_RES_RESERVED_DEFINITION | 8 | |
| SET_RES_RESET | 8 | C |
| SET_RES_STATE | 4 | |
| SET_RES_STATUS | 4 | |
| SET_SE_DEFINITION | 0 | |
| SET_SE_DESCRIPTION | 10 | |
| SET_SE_OFFSETS | 38 | |
| SET_SE_OFFSETS_RESERVED | 40 | |
| SET_SE_RESERVED_DEFINITION | 30 | |
| SET_SE_SCHENV_NAME | 0 | |
| SET_SE_SR_COUNT | 3C | |
| SET_SE_SR_OFFSET | 38 | |
| SET_SES_AVAILABLE | 4 | 80 |
| SET_SES_DEFINITION | 0 | |
| SET_SES_FLAG1 | 4 | |
| SET_SES_FLAG2 | 5 | |
| SET_SES_REQUIRES_ENF | 5 | 80 |
| SET_SES_REQUIRES_REC_ENF | 5 | 40 |
| SET_SES_RESERVED | 6 | |
| SET_SES_RESERVED_DEFINITION | 8 | |
| SET_SES_SE_INDEX | 0 | |
| SET_SES_STATUS | 4 | |
| SET_SIZE_RE | 52 | |
| SET_SIZE_RES | 36 | |
| SET_SIZE_RESERVED | 62 | |
| SET_SIZE_RESERVED1 | 3E | |
| SET_SIZE_SE | 42 | |
| SET_SIZE_SES | 2E | |
| SET_SIZE_SR | 4A | |
| SET_SIZE_SYS | 5A | |
| SET_SR_DEFINITION | 0 | |
| SET_SR_FLAG1 | 8 | |
| SET_SR_LAST_ONE_FOR_SE | 8 | 80 |
| SET_SR_OFF | 8 | 8 |
| SET_SR_OFFSETS | 14 | |
| SET_SR_OFFSETS_RESERVED | | |

| Name | Hex Offset | Hex Value |
|--------------------------------|------------|-----------|
| SET_SR_ON | 8 | 4 |
| SET_SR_RE_INDEX | 14 | |
| SET_SR_RE_OFFSET | 18 | |
| SET_SR_RESERVED | 8 | C |
| SET_SR_RESERVED_DEFINITION1 | A | |
| SET_SR_RESERVED_DEFINITION2 | C | |
| SET_SR_RESOURCE_STATE | 9 | |
| SET_SR_SE_INDEX | 0 | |
| SET_SR_SE_OFFSET | 4 | |
| SET_SYS_DEFINITION | 0 | |
| SET_SYS_HDR_CONTROL | 8 | |
| SET_SYS_HDR_CONTROL_RESERVED | 19 | |
| SET_SYS_HDR_CONTROL_RESERVED2 | 20 | |
| SET_SYS_HDR_EYECATCHER | 0 | |
| SET_SYS_HDR_MODIFIED | 10 | |
| SET_SYS_HDR_OFFSETS_AREA | 28 | |
| SET_SYS_HDR_RES_SECTION | 30 | |
| SET_SYS_HDR_RESERVED | 40 | |
| SET_SYS_HDR_RESERVED_SECTION | 38 | |
| SET_SYS_HDR_SES_SECTION | 28 | |
| SET_SYS_HDR_SIZE_OF_HEADER | 1A | |
| SET_SYS_HDR_TOD_VALUE | 8 | |
| SET_SYS_HDR_WHOLE_SIZE | 1C | |
| SET_SYS_HDR_WLM_VERSION_NUMBER | 18 | |
| SET_SYS_NAME | 0 | |
| SET_SYS_RESERVED_DEFINITION | 8 | |
| SET_SYS_STATUS_PTR | 10 | |
| SETHDR | 0 | |
| SETHDR_LEN | 62 | 64 |
| SETRE | 0 | |
| SETRE_LEN | 30 | 38 |
| SETRES | 0 | |
| SETRES_LEN | 8 | 10 |
| SETSE | 0 | |
| SETSE_LEN | 48 | 48 |
| SETSES | 0 | |
| SETSES_LEN | 8 | 10 |
| SETSR | 0 | |
| SETSR_LEN | 24 | 24 |

IWMSET Cross Reference

| Name | Hex Offset | Hex Value |
|------------|---------------|--------------|
| SETSYH | 0 | |
| SETSYH_LEN | 50 | 50 |
| SETSYS | 0 | |
| SETSYS_LEN | 10 | 14 |

IWMSVAEA Programming Interface information

Programming Interface information

IWMSVAEA

End of Programming Interface information

IWMSVAEA Heading Information

Common Name: WLM Service Definition Application Environment mapping
Macro ID: IWMSVAEA
DSECT Name: SVAEAHDR SVAEAAE SVAEAEXT
Owning Component: Workload Manager (SCWLM)
Eye-Catcher ID: SVAE
Offset: 0
Length: CHAR(4)
Storage Attributes: Subpool: Any
Key: Any
Residency: Above 16M line
Size: Determined at run time
Created by: Caller
Pointed to by: Offset within SERV D (IWMSERV D) mapping
Serialization: None
Function: Contains service definition application environment information.

IWMSVAEA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|---------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | SVAEAHDR | |
| 0 | (0) | CHARACTER | 4 | SVAEA_EYECATCHER | IWMSVAEA.13: Eye catcher for SVAEA - SVAE |
| 4 | (4) | SIGNED | 1 | SVAEA_FUNCTIONALITY_LEVEL | IWMSVAEA.19: Functionality level of the SVAEA. The functionality level defines the highest level of WLM function that exists in the SVAEA |
| 5 | (5) | SIGNED | 1 | SVAEA_WLM_VERSION_NUMBER | IWMSVAEA.25: WLM version number |
| 6 | (6) | SIGNED | 2 | SVAEA_SIZE_OF_HEADER | IWMSVAEA.31: Size of header section |
| 8 | (8) | SIGNED | 4 | SVAEA_SIZE_OF_WHOLE_SVAEA | IWMSVAEA.37: Size of the whole application environment section |
| 12 | (C) | SIGNED | 4 | SVAEA_RESERVED1 | IWMSVAEA.743: Reserved |
| 16 | (10) | CHARACTER | 24 | SVAEA_OFFSETS_AREA | IWMSVAEA.890: SVAEA section offsets area |
| 16 | (10) | SIGNED | 4 | SVAEA_OFFSET_AE | IWMSVAEA.43: Offset of application environment section |
| 20 | (14) | SIGNED | 2 | SVAEA_NUMBER_AE | IWMSVAEA.49: Number of application environments |
| 22 | (16) | SIGNED | 2 | SVAEA_SIZE_AE | IWMSVAEA.55: Size of an application environment entry |
| 24 | (18) | SIGNED | 4 | SVAEA_OFFSET_RESERVED1 | IWMSVAEA.886: Reserved offset |
| 28 | (1C) | SIGNED | 2 | SVAEA_NUMBER_RESERVED1 | IWMSVAEA.864: Reserved number |
| 30 | (1E) | SIGNED | 2 | SVAEA_SIZE_RESERVED1 | IWMSVAEA.870: Reserved size |
| 32 | (20) | SIGNED | 4 | SVAEA_OFFSET_RESERVED2 | IWMSVAEA.660: Reserved offset |
| 36 | (24) | SIGNED | 2 | SVAEA_NUMBER_RESERVED2 | IWMSVAEA.658: Reserved number |
| 38 | (26) | SIGNED | 2 | SVAEA_SIZE_RESERVED2 | IWMSVAEA.676: Reserved size |
| 40 | (28) | CHARACTER | 32 | SVAEA_EXT_OFFSETS_AREA | IWMSVAEA.199: SVAEA extension offsets area |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|--------------------|--|
| Dec | Hex | | | | |
| 40 | (28) | SIGNED | 4 | SVAEA_EXT_DATA_OFF | IWMSVAEA.215: Offset of extended data (0 if no extended data exists) |
| 44 | (2C) | SIGNED | 4 | SVAEA_EXT_DATA_LEN | IWMSVAEA.231: Length of extended data |
| 48 | (30) | SIGNED | 4 | SVAEA_EXT_OFF_AE | IWMSVAEA.197: Offset of application environment extension section if number of application environment extensions is nonzero (otherwise this field is ignored) |
| 52 | (34) | SIGNED | 2 | SVAEA_EXT_NUM_AE | IWMSVAEA.203: Number of application environment extension entries |
| 54 | (36) | SIGNED | 2 | SVAEA_EXT_SIZ_AE | IWMSVAEA.209: Size of each application environment extension entry |
| 56 | (38) | SIGNED | 4 | SVAEA_EXT_OFF_RSV1 | IWMSVAEA.237: Offset reserved |
| 60 | (3C) | SIGNED | 2 | SVAEA_EXT_NUM_RSV1 | IWMSVAEA.453: Number reserved |
| 62 | (3E) | SIGNED | 2 | SVAEA_EXT_SIZ_RSV1 | IWMSVAEA.491: Size reserved |
| 64 | (40) | SIGNED | 4 | SVAEA_EXT_OFF_RSV2 | IWMSVAEA.485: Offset reserved |
| 68 | (44) | SIGNED | 2 | SVAEA_EXT_NUM_RSV2 | IWMSVAEA.497: Number reserved |
| 70 | (46) | SIGNED | 2 | SVAEA_EXT_SIZ_RSV2 | IWMSVAEA.503: Size reserved |
| 72 | (48) | SIGNED | 4 | SVAEA_RESERVED2 | IWMSVAEA.681: Reserved |
| 112 | (70) | X'70' | 0 | SVAEAHDR_LEN | ** -SVAEAHDR" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | SVAEAAE | |
| 0 | (0) | CHARACTER | 32 | SVAEA_APPLICATION_ENVIRONMENT_NAME | IWMSVAEA.160: Application environment name |
| 32 | (20) | CHARACTER | 32 | SVAEA_DESCRIPTION | IWMSVAEA.166: Description |
| 64 | (40) | CHARACTER | 4 | SVAEA_SUBSYSTEM_TYPE | IWMSVAEA.447: Subsystem type |
| 68 | (44) | CHARACTER | 8 | SVAEA_PROCEDURE_NAME | IWMSVAEA.452: Procedure name |
| 76 | (4C) | CHARACTER | 115 | SVAEA_START_PARMS | IWMSVAEA.460: Start parameters |
| 191 | (BF) | CHARACTER | 1 | SVAEA_RESERVED3 | IWMSVAEA.183: Reserved |
| 192 | (C0) | BITSTRING | 4 | SVAEA_WLM_OPTIONS | IWMSVAEA.471: WLM options |
| | | 1... | | SVAEA_SINGLE_SERVER | "X'80" IWMSVAEA.476: Maximum of one server per work manager in this application environment |
| | | .1... | | SVAEA_SINGLE_SYSPLEX | "X'40" IWMSVAEA.761: Maximum of one server per sysplex in this application environment |
| 196 | (C4) | CHARACTER | 8 | SVAEA_RESERVED_A | IWMSVAEA.506: Reserved |
| 204 | (CC) | CHARACTER | 8 | SVAEA_RESERVED_B | IWMSVAEA.512: Reserved |
| 212 | (D4) | CHARACTER | 8 | SVAEA_RESERVED_C | IWMSVAEA.188: Reserved |
| 220 | (DC) | CHARACTER | 8 | SVAEA_RESERVED_D | IWMSVAEA.194: Reserved |

IWMSVAEA Map

| Offsets | | | | | |
|---------|------|------------|-----|-------------|-------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 220 | (DC) | X'E4' | 0 | SVAEAAE_LEN | "*-SVAEAAE" |

| Offsets | | | | | |
|---------|------|------------|-----|------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | SVAEAEEXT | |
| 0 | (0) | CHARACTER | 8 | SVAEAEVID | IWMSVAEA.542: Vendor/product ID that owns the entry |
| 8 | (8) | CHARACTER | 32 | SVAEAEARB | IWMSVAEA.555: Related object name - name of object (for example, application environment name, SVAEA_APPLICATION_ENVIRONMENT_NAME) which this extension entry extends |
| 40 | (28) | SIGNED | 4 | SVAEAEEDL | IWMSVAEA.902: Extended data length |
| 44 | (2C) | SIGNED | 4 | SVAEAEEDO | IWMSVAEA.423: Extended data offset - offset is from beginning of the extended data whose offset is in SVAEA_EXT_DATA_OFF |

| | | | | | |
|--------------------------------|------|-----------|---|----------|----------------|
| | | | | | Comment |
| IWMSVAEA.703: SVAEA identifier | | | | | |
| | | | | | End of Comment |
| 44 | (2C) | X'E5C1C5' | 0 | SVAEA_ID | "C'SVAE" |

| | | | | | |
|--|------|------|---|----------------|----------------|
| | | | | | Comment |
| IWMSVAEA.712: Functionality level introduced by WLM in SP510. This is set by HBB6603 when no application environments were defined. | | | | | |
| | | | | | End of Comment |
| 44 | (2C) | X'1' | 0 | SVAEA_LEVEL001 | "1" |

| | | | | | |
|--|------|------|---|----------------|----------------|
| | | | | | Comment |
| IWMSVAEA.142: Functionality level introduced by WLM in OS/390 V1R3 | | | | | |
| | | | | | End of Comment |
| 44 | (2C) | X'3' | 0 | SVAEA_LEVEL003 | "3" |

| | | | | | |
|--|------|------|---|--------------|----------------|
| | | | | | Comment |
| IWMSVAEA.721: WLM version number for OS/390 V1R3 | | | | | |
| | | | | | End of Comment |
| 44 | (2C) | X'3' | 0 | SVAEA_VER530 | "3" |

| | | | | | |
|--|------|------|---|----------------|----------------|
| | | | | | Comment |
| IWMSVAEA.581: Functionality level introduced by WLM in OS/390 V2R4 | | | | | |
| | | | | | End of Comment |
| 44 | (2C) | X'4' | 0 | SVAEA_LEVEL004 | "4" |

| | | | | | |
|--|--|--|--|--|----------------|
| | | | | | Comment |
| IWMSVAEA.845: WLM version number for OS/390 V2R4 | | | | | |
| | | | | | End of Comment |

| Offsets | | | | | |
|--|------|------------|-----|----------------|-------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 44 | (2C) | X'4' | 0 | SVAEA_VER604 | "4" |
| Comment | | | | | |
| IWMSVAEA.96: Functionality level introduced by WLM in OS/390 V2R5 | | | | | |
| End of Comment | | | | | |
| 44 | (2C) | X'5' | 0 | SVAEA_LEVEL005 | "5" |
| Comment | | | | | |
| IWMSVAEA.107: WLM version number for OS/390 V2R5 | | | | | |
| End of Comment | | | | | |
| 44 | (2C) | X'5' | 0 | SVAEA_VER605 | "5" |
| Comment | | | | | |
| IWMSVAEA.119: Functionality level introduced by WLM in OS/390 V2R6 | | | | | |
| End of Comment | | | | | |
| 44 | (2C) | X'6' | 0 | SVAEA_LEVEL006 | "6" |
| Comment | | | | | |
| IWMSVAEA.123: WLM version number for OS/390 V2R6 | | | | | |
| End of Comment | | | | | |
| 44 | (2C) | X'6' | 0 | SVAEA_VER606 | "6" |
| Comment | | | | | |
| IWMSVAEA.86: Functionality level introduced by WLM in OS/390 V2R7 | | | | | |
| End of Comment | | | | | |
| 44 | (2C) | X'7' | 0 | SVAEA_LEVEL007 | "7" |
| Comment | | | | | |
| IWMSVAEA.246: WLM version number for OS/390 V2R7 | | | | | |
| End of Comment | | | | | |
| 44 | (2C) | X'7' | 0 | SVAEA_VER607 | "7" |
| Comment | | | | | |
| IWMSVAEA.136: Functionality level introduced by WLM in OS/390 V2R7 | | | | | |
| End of Comment | | | | | |
| 44 | (2C) | X'8' | 0 | SVAEA_LEVEL008 | "8" |
| Comment | | | | | |
| IWMSVAEA.309: WLM version number for OS/390 V2R7 | | | | | |
| End of Comment | | | | | |

IWMSVAEA Map

| Offsets | | | | | |
|---|------|------------|-----|--------------------|-------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 44 | (2C) | X'8' | 0 | SVAEA_VER608 | "8" |
| Comment | | | | | |
| IWMSVAEA.428: Reserved functionality level | | | | | |
| End of Comment | | | | | |
| 44 | (2C) | X'9' | 0 | SVAEA_LEVEL009 | "9" |
| Comment | | | | | |
| IWMSVAEA.810: Reserved for WLM version number for OS/390 V2R8 | | | | | |
| End of Comment | | | | | |
| 44 | (2C) | X'9' | 0 | SVAEA_RESERVED_R08 | "9" |
| Comment | | | | | |
| IWMSVAEA.414: Reserved functionality level | | | | | |
| End of Comment | | | | | |
| 44 | (2C) | X'A' | 0 | SVAEA_LEVEL010 | "10" |
| Comment | | | | | |
| IWMSVAEA.742: Reserved for WLM version number for OS/390 V2R9 | | | | | |
| End of Comment | | | | | |
| 44 | (2C) | X'A' | 0 | SVAEA_RESERVED_R09 | "10" |
| Comment | | | | | |
| IWMSVAEA.694: Functionality level introduced by WLM in OS/390 V2R10 | | | | | |
| End of Comment | | | | | |
| 44 | (2C) | X'B' | 0 | SVAEA_LEVEL011 | "11" |
| Comment | | | | | |
| IWMSVAEA.373: WLM version number for OS/390 V2R10 | | | | | |
| End of Comment | | | | | |
| 44 | (2C) | X'B' | 0 | SVAEA_VER703 | "11" |
| Comment | | | | | |
| IWMSVAEA.68: Reserved functionality level | | | | | |
| End of Comment | | | | | |
| 44 | (2C) | X'C' | 0 | SVAEA_LEVEL012 | "12" |
| Comment | | | | | |
| IWMSVAEA.813: Reserved for WLM version number for OS/390 V2R11 | | | | | |
| End of Comment | | | | | |
| 44 | (2C) | X'C' | 0 | SVAEA_RESERVED_R11 | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-------------------|---|
| Dec | Hex | | | | |
| | | | | | "12" |
| | | | | Comment | |
| | | | | | IWMSVAEA.616: Functionality level introduced by WLM in OS/390 V2R11 |
| | | | | End of Comment | |
| 44 | (2C) | X'D' | 0 | SVAEA_LEVEL013 | "13" |
| | | | | Comment | |
| | | | | | IWMSVAEA.594: WLM version number for OS/390 V2R12 |
| | | | | End of Comment | |
| 44 | (2C) | X'D' | 0 | SVAEA_VER705 | "13" |
| | | | | Comment | |
| | | | | | IWMSVAEA.748: Current version level used when checking functionality within WLM product |
| | | | | End of Comment | |
| 44 | (2C) | X'D' | 0 | SVAEA_CURRENT_VER | "13" |
| | | | | Comment | |
| | | | | | IWMSVAEA.777: SVAEA section symbolic constant |
| | | | | End of Comment | |
| 44 | (2C) | X'37' | 0 | SVAEA_SECTION | "55" |
| | | | | Comment | |
| | | | | | IWMSVAEA.786: SVAEA header symbolic constant |
| | | | | End of Comment | |
| 44 | (2C) | X'38' | 0 | SVAEA_HDR_SECTION | "56" |
| | | | | Comment | |
| | | | | | IWMSVAEA.795: SVAEA AE symbolic constant |
| | | | | End of Comment | |
| 44 | (2C) | X'39' | 0 | SVAEA_AE_SECTION | "57" |
| | | | | Comment | |
| | | | | | IWMSVAEA.592: SVAEA extension symbolic constant |
| | | | | End of Comment | |
| 44 | (2C) | X'3A' | 0 | SVAEA_EXT_SECTION | "58" |
| 44 | (2C) | X'30' | 0 | SVAEAEXT_LEN | "*-SVAEAEXT" |

IWMSVAEA Cross Reference

IWMSVAEA Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|------------------------------------|---------------|--------------|---------------------------|---------------|--------------|
| SVAEA_AE_SECTION | 2C | 39 | SVAEA_LEVEL013 | 2C | D |
| SVAEA_APPLICATION_ENVIRONMENT_NAME | 0 | | SVAEA_NUMBER_AE | 14 | |
| SVAEA_CURRENT_VER | 2C | D | SVAEA_NUMBER_RESERVED1 | 1C | |
| SVAEA_DESCRIPTION | 20 | | SVAEA_NUMBER_RESERVED2 | 24 | |
| SVAEA_EXT_DATA_LEN | 2C | | SVAEA_OFFSET_AE | 10 | |
| SVAEA_EXT_DATA_OFF | 28 | | SVAEA_OFFSET_RESERVED1 | 18 | |
| SVAEA_EXT_NUM_AE | 34 | | SVAEA_OFFSET_RESERVED2 | 20 | |
| SVAEA_EXT_NUM_RSV1 | 3C | | SVAEA_OFFSETS_AREA | 10 | |
| SVAEA_EXT_NUM_RSV2 | 44 | | SVAEA_PROCEDURE_NAME | 44 | |
| SVAEA_EXT_OFF_AE | 30 | | SVAEA_RESERVED_A | C4 | |
| SVAEA_EXT_OFF_RSV1 | 38 | | SVAEA_RESERVED_B | CC | |
| SVAEA_EXT_OFF_RSV2 | 40 | | SVAEA_RESERVED_C | D4 | |
| SVAEA_EXT_OFFSETS_AREA | 28 | | SVAEA_RESERVED_D | DC | |
| SVAEA_EXT_SECTION | 2C | 3A | SVAEA_RESERVED_R08 | 2C | 9 |
| SVAEA_EXT_SIZ_AE | 36 | | SVAEA_RESERVED_R09 | 2C | A |
| SVAEA_EXT_SIZ_RSV1 | 3E | | SVAEA_RESERVED_R11 | 2C | C |
| SVAEA_EXT_SIZ_RSV2 | 46 | | SVAEA_RESERVED1 | C | |
| SVAEA_EYECATCHER | 0 | | SVAEA_RESERVED2 | 48 | |
| SVAEA_FUNCTIONALITY_LEVEL | 4 | | SVAEA_RESERVED3 | BF | |
| SVAEA_HDR_SECTION | 2C | 38 | SVAEA_SECTION | 2C | 37 |
| SVAEA_ID | 2C | E5C1C5 | SVAEA_SINGLE_SERVER | C0 | 80 |
| SVAEA_LEVEL001 | 2C | 1 | SVAEA_SINGLE_SYSPLEX | C0 | 40 |
| SVAEA_LEVEL003 | 2C | 3 | SVAEA_SIZE_AE | 16 | |
| SVAEA_LEVEL004 | 2C | 4 | SVAEA_SIZE_OF_HEADER | 6 | |
| SVAEA_LEVEL005 | 2C | 5 | SVAEA_SIZE_OF_WHOLE_SVAEA | 8 | |
| SVAEA_LEVEL006 | 2C | 6 | SVAEA_SIZE_RESERVED1 | 1E | |
| SVAEA_LEVEL007 | 2C | 7 | SVAEA_SIZE_RESERVED2 | 26 | |
| SVAEA_LEVEL008 | 2C | 8 | SVAEA_START_PARMS | 4C | |
| SVAEA_LEVEL009 | 2C | 9 | SVAEA_SUBSYSTEM_TYPE | 40 | |
| SVAEA_LEVEL010 | 2C | A | SVAEA_VER530 | 2C | 3 |
| SVAEA_LEVEL011 | 2C | B | SVAEA_VER604 | 2C | 4 |
| SVAEA_LEVEL012 | 2C | C | SVAEA_VER605 | 2C | 5 |
| | | | SVAEA_VER606 | 2C | 6 |
| | | | SVAEA_VER607 | 2C | 7 |

| Name | Hex Offset | Hex Value |
|--------------------------|---------------|--------------|
| SVAEA_VER608 | 2C | 8 |
| SVAEA_VER703 | 2C | B |
| SVAEA_VER705 | 2C | D |
| SVAEA_WLM_OPTIONS | C0 | |
| SVAEA_WLM_VERSION_NUMBER | 5 | |
| SVAEAAE | 0 | |
| SVAEAAE_LEN | DC | E4 |
| SVAEAEDL | 28 | |
| SVAEAEDO | 2C | |
| SVAEAEXT | 0 | |
| SVAEAEXT_LEN | 2C | 30 |
| SVAEAHDR | 0 | |
| SVAEAHDR_LEN | 70 | 70 |
| SVAEAROB | 8 | |
| SVAEAVID | 0 | |

IWMSVDCR Programming Interface information

Programming Interface information

IWMSVDCR

End of Programming Interface information

IWMSVDCR Heading Information

Common Name: WLM Service Definition Classification Rule mapping
Macro ID: IWMSVDCR
DSECT Name: SVDCRHDR SVDCRSST SVDCRRUL SVDCRGRP SVDCRGVS SVDCREXT
Owning Component: Workload Manager (SCWLM)
Eye-Catcher ID: SVDC
 Offset: 0
 Length: CHAR(4)
Storage Attributes: Subpool: Any
 Key: Any
 Residency: Above 16M line
Size: Determined at run time
Created by: Caller
Pointed to by: offset within SERV D (IWMSEVD) mapping
Serialization: None
Function: Contains service definition classification rule information returned by the IWMQRY service
 All timestamps are local time expressed in STCK format.

IWMSVDCR Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---|------|------------|-----|--------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | SVDCRHDR | Service definition classification rule header section |
| 0 | (0) | CHARACTER | 4 | SVDCRNAM | Eyecatcher |
| 4 | (4) | SIGNED | 1 | SVDCRLVL | Functionality level of the SVDCR. |
| <div> <div>Comment</div> <div> <p>The functionality level defines the highest level of WLM function that exists in the SVDCR.</p> </div> <div>End of Comment</div> </div> | | | | | |
| 5 | (5) | SIGNED | 1 | SVDCRWVN | WLM version number |
| 6 | (6) | SIGNED | 2 | SVDCRDIL | Size in bytes of header section |
| 8 | (8) | SIGNED | 4 | SVDCRSIZ | Size in bytes of the whole classification rule definition |
| 12 | (C) | SIGNED | 4 | SVDCRSO | Offset of subsystem type section if number of subsystems is nonzero (otherwise this field is ignored) |
| 16 | (10) | SIGNED | 2 | SVDCRSN | Number of subsystem type entries |
| 18 | (12) | SIGNED | 2 | SVDCRSS | Size of a subsystem type entry |
| 20 | (14) | SIGNED | 4 | SVDCRRO | Offset of classification rule section if number of classification rules is nonzero (otherwise this field is ignored) |
| 24 | (18) | SIGNED | 2 | SVDCRRN | Number of classification rule entries |
| 26 | (1A) | SIGNED | 2 | SVDCRRS | Size of a classification rule entry |
| 28 | (1C) | SIGNED | 4 | SVDCRGO | Offset of group section if number of groups is nonzero (otherwise this field is ignored) |
| 32 | (20) | SIGNED | 2 | SVDCRGN | Number of group entries |
| 34 | (22) | SIGNED | 2 | SVDCRGS | Size of a group entry |
| 36 | (24) | SIGNED | 4 | SVDCRVO | Offset of group value section if the groups is nonzero (otherwise this field is ignored) |
| 40 | (28) | SIGNED | 2 | SVDCRVN | Number of group value entries |
| 42 | (2A) | SIGNED | 2 | SVDCRVS | Size of a group value entry |
| 44 | (2C) | SIGNED | 2 | SVDCRLN | Deepest allowed level of nesting of classification rules (cannot exceed 4) |
| 46 | (2E) | CHARACTER | 2 | | Reserved |
| 48 | (30) | CHARACTER | 32 | | Reserved for additional triplets |
| 80 | (50) | SIGNED | 4 | SVDCR_EXT_DATA_OFF | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|--------------------|---|
| Dec | Hex | | | | |
| 84 | (54) | SIGNED | 4 | SVDCR_EXT_DATA_LEN | Offset of extended data - this field not applicable for the IWMQRY interface |
| 88 | (58) | SIGNED | 4 | SVDCR_SST_EXT_OFF | Length of extended data - this field not applicable for the IWMQRY interface |
| 92 | (5C) | SIGNED | 2 | SVDCR_SST_EXT_NUM | Offset of subsystem type extension section if number of subsystem type extensions is nonzero (otherwise this field is ignored) - this field not applicable for the IWMQRY interface |
| 94 | (5E) | SIGNED | 2 | SVDCR_SST_EXT_SIZ | Number of subsystem type extension entries - this field not applicable for the IWMQRY interface |
| 96 | (60) | CHARACTER | 32 | | Length of each subsystem type extension entry - this field not applicable for the IWMQRY interface |
| 96 | (60) | X'80' | 0 | SVDCRHDR_LEN | Reserved for additional extension triplets |
| | | | | | **-SVDCRHDR" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|--------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | SVDCRSST | Subsystem type section |
| 0 | (0) | CHARACTER | 4 | SVDCRSNM | Subsystem type name |
| 4 | (4) | CHARACTER | 32 | SVDCRSDE | Subsystem type description (this field not provided for IWMQRY) |
| 36 | (24) | CHARACTER | 1 | SVDCRSFL (0) | Subsystem type flags |
| | | 1... | | SVDCRSCL | "X'80" Default service class name specified |
| | | .1... | | SVDCRSPI | "X'40" Default report class name specified |
| 37 | (25) | CHARACTER | 3 | | Reserved |
| 40 | (28) | CHARACTER | 8 | SVDCRSCN | Service class name to which work for this subsystem type will be classified if not overridden by service class associated with a particular rule. This field valid only if SVDCRSCL is on |
| 48 | (30) | CHARACTER | 8 | SVDCRSPN | Report class name to which work for this subsystem type will be reported if not overridden by report class associated with a particular rule. This field valid only if SVDCRSPI is on |
| 56 | (38) | SIGNED | 4 | SVDCRSRO | Offset to the first classification rule for this subsystem type from the beginning of this SVDCRSST entry |
| 60 | (3C) | SIGNED | 2 | SVDCRSRN | Total number of classification rules for this subsystem type |
| 62 | (3E) | CHARACTER | 2 | | Reserved |
| 64 | (40) | CHARACTER | 8 | SVDCRSIU | Userid of subsystem type creator (this field not provided for IWMQRY) |
| 72 | (48) | CHARACTER | 8 | SVDCRSIT | Timestamp of initial creation (this field not provided for IWMQRY) |
| 80 | (50) | CHARACTER | 8 | SVDCRSRU | Userid of subsystem type last update (this field not provided for IWMQRY) |
| 88 | (58) | CHARACTER | 8 | SVDCRSRT | Timestamp of subsystem type last update (this field not provided for IWMQRY) |
| 88 | (58) | X'60' | 0 | SVDCRSST_LEN | **-SVDCRSST" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|--------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | SVDCRRUL | Classification rule entry |
| 0 | (0) | CHARACTER | 4 | SVDCRRQT (0) | Classification rule qualifier type to indicate the type of value in SVDCRRQV. Each qualifier type takes a character value with optional masking or wildcarding unless otherwise noted. |
| 0 | (0) | CHARACTER | 1 | SVDCRRQT_BYTE1 (0) | First byte |
| | | 1... | | SVDCRRTN | "X'80" Transaction name |
| | | .1... | | SVDCRRTC | "X'40" Transaction class |
| | | ..1. | | SVDCRRUI | "X'20" Userid |
| | | ...1 | | SVDCRRSN | "X'10" Subsystem name |

IWMSVDCR Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|---------------------------------|--|
| Dec | Hex | | | | |
| 1 | (1) | 1... | 1 | SVDCRRNI | "X'08" Net id |
| | |1.. | | SVDCRRLU | "X'04" LU name |
| | |1. | | SVDCRRAC | "X'02" Accounting information |
| | |1 | | SVDCRRSP | "X'01" Subsystem parameter |
| | | CHARACTER | | SVDCRRQT_BYTE2 (0) | Second byte |
| | | 1... | | SVDCRRQT_COLL_NAME | "X'80" Collection name |
| | | .1.. | | SVDCRRQT_CORR_INFO | "X'40" Correlation information |
| | | ..1. | | SVDCRRQT_CONN_TYPE | "X'20" Connection type |
| | | ...1 | | SVDCRRQT_PACK_NAME | "X'10" Package name |
| | | 1... | | SVDCRRQT_PLAN_NAME | "X'08" Plan name |
| | |1.. | | SVDCRRQT_PERFORM | "X'04" Perform - although this is a number, it is treated as character data, i.e. masking and wildcarding can be used, relational operators cannot be used |
| | |1. | | SVDCRRQT_PROC_NAME | "X'02" Procedure Name |
| | |1 | | SVDCRRQT_PRIORITY | "X'01" Priority - qualifier value is a number optionally preceded by a relational operator |
| | | CHARACTER | | SVDCRRQT_BYTE3 (0) | Third byte |
| 2 | (2) | 1... | 1 | SVDCRRQT_PROCESS_NAME | "X'80" Process Name |
| | | .1.. | | SVDCRRQT_SYSTEM_NAME | "X'40" System Name |
| | | ..1. | | SVDCRRQT_SYSPLEX_NAME | "X'20" Sysplex Name |
| | | ...1 | | SVDCRRQT_SUBSYSTEM_COLLECTION | "X'10" Subsystem Collection |
| | | 1... | | SVDCRRQT_SCHEDULING_ENVIRONMENT | "X'08" |
| | | | | Comment | |
| | | | | Scheduling Environment | |
| | | | | End of Comment | |
| 3 | (3) |1.. | 1 | SVDCRRQT_B3_RSV04 | "X'04" Reserved for future type and must be zero |
| | |1. | | SVDCRRQT_B3_RSV02 | "X'02" Reserved for future type and must be zero |
| | |1 | | SVDCRRQT_B3_RSV01 | "X'01" Reserved for future type and must be zero |
| | | CHARACTER | | SVDCRRQT_BYTE4 (0) | Reserved for future types |
| | | 1... | | SVDCRRQT_B4_RSV80 | "X'80" Reserved for future type and must be zero |
| | | .1.. | | SVDCRRQT_B4_RSV40 | "X'40" Reserved for future type and must be zero |
| | | ..1. | | SVDCRRQT_B4_RSV20 | "X'20" Reserved for future type and must be zero |
| | | ...1 | | SVDCRRQT_B4_RSV10 | "X'10" Reserved for future type and must be zero |
| | | 1... | | SVDCRRQT_B4_RSV08 | "X'08" Reserved for future type and must be zero |
| | | | | | "X'08" Reserved for future type and must be zero |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|--|------|------------|-----|-------------------|--|
| Dec | Hex | | | | |
| | |1.. | | SVDCRRQT_B4_RSV04 | "X'04" Reserved for future type and must be zero |
| | |1. | | SVDCRRQT_B4_RSV02 | "X'02" Reserved for future type and must be zero |
| | |1 | | SVDCRRQT_B4_RSV01 | "X'01" Reserved for future type and must be zero |
| <p>Comment</p> <p>Format of SVDCRRQV (rule qualifier value): If SVDCRRGI is off (indicating this qualifier value does not refer to a group name) special characters or operators can be used based on the data type of the qualifier value. For attributes that take character data (such as transaction name) the following special characters apply:</p> <ul style="list-style-type: none"> - Asterisk () in the last non-blank character position indicates wildcard (note: an asterisk in any other position is treated simply as the asterisk character) - Mask character (%) in any position indicates that position will match any value for that character <p>For attributes that take numeric data (such as priority), the qualifier value consists of 1 to 8 EBCDIC digits, optionally preceded by one of the operators shown below. The operator must be in position 1, and the digits must follow the operator with no intervening blanks. If no operator appears (digits must begin in position 1), an equal comparison is performed. Trailing blanks can appear after the digits to pad the value to 8 characters.</p> <ul style="list-style-type: none"> - Less than (<) - Greater than (>) - Less than or equal (<=) - Greater than or equal (>=) - Not equal (<>) <p>If SVDCRRGI is on (indicating this field contains a group name), then no wildcard or mask characters or relational operators may be specified.</p> | | | | | |
| End of Comment | | | | | |
| 4 | (4) | CHARACTER | 8 | SVDCRRQV | Classification rule qualifier value (see description of format above) |
| 12 | (C) | SIGNED | 2 | SVDCRRSV | Substring value index - starting position of substring. Ignored if SVDCRRSU is off. |
| 14 | (E) | CHARACTER | 2 | | Reserved |
| 16 | (10) | CHARACTER | 1 | SVDCRRFL (0) | Classification rule flags |
| | | ..1. | | SVDCRRSU | "X'20" Substringing used for qualifier value (mutually exclusive with SVDCRRGI, qualifier must take character data) |
| | | 1... | | SVDCRRCI | "X'08" Service class name specified for this rule |
| | |1.. | | SVDCRRPI | "X'04" Report class name specified for this rule |
| | |1. | | SVDCRRGI | "X'02" Qualifier value refers to a group |
| | |1 | | SVDCRSTR | "X'01" Storage Protection |
| 17 | (11) | CHARACTER | 1 | SVDCRRF2 (0) | Classification rule flags |
| 18 | (12) | CHARACTER | 1 | SVDCRRF3 (0) | Classification rule flags byte 3. Currently, this byte contain bits that are going to be used in both SVPOL and SVDEF |
| | | 1... | | SVDCRTRM | "X'80" Transaction or Region Management Option Transaction: SVDCRTRM = 0 Region : SVDCRTRM = 1 |
| 19 | (13) | CHARACTER | 1 | | Reserved |
| 20 | (14) | CHARACTER | 8 | SVDCRRCN | Service class name this rule will assign if rule matches. Valid only if classification rule flag (SVDCRRCI) indicates that the service class name was specified. |

IWMSVDCR Map

| Offsets | | | | | |
|---------|------|------------|-----|--------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 28 | (1C) | CHARACTER | 8 | SVDCRRPN | Report class name, if SVDCRRPI is ON |
| 36 | (24) | SIGNED | 2 | SVDCRRLV | Nesting level of rule from 1 to 4 |
| 38 | (26) | CHARACTER | 2 | | Reserved |
| 40 | (28) | SIGNED | 4 | | Reserved |
| 44 | (2C) | CHARACTER | 32 | SVDCRDES | Rule definition - this field not applicable for IWMQRY |
| 44 | (2C) | X'4C' | 0 | SVDCRRUL_LEN | **SVDCRRUL" |

| Offsets | | | | | |
|---------|------|------------|-----|----------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | SVDCRGRP | Group section |
| 0 | (0) | CHARACTER | 8 | SVDCRGRN | Name of group |
| 8 | (8) | CHARACTER | 32 | SVDCRGDE | Group description (this field not provided for IWMQRY) |
| 40 | (28) | CHARACTER | 2 | SVDCRGTY (0) | Qualifier type information for group describe the type in the value list |
| 40 | (28) | CHARACTER | 1 | SVDCRGTY_BYTE1 (0) | First byte |
| | | 1... | | SVDCRGTN | "X'80" Transaction name |
| | | .1.. | | SVDCRGTC | "X'40" Transaction class |
| | | ..1. | | SVDCRGUI | "X'20" Userid |
| | | ...1 | | SVDCRGSN | "X'10" Subsystem name |
| | | 1... | | SVDCRGNI | "X'08" Net id |
| | |1.. | | SVDCRGLU | "X'04" LU name |
| | |1. | | SVDCRGTY_CONN_TYPE | "X'02" Connection type |
| | |1 | | SVDCRGTY_PACK_NAME | "X'01" Package name |
| 41 | (29) | CHARACTER | 1 | SVDCRGTY_BYTE2 (0) | Second byte |
| | | 1... | | SVDCRGTY_PLAN_NAME | "X'80" Plan name |
| | | .1.. | | SVDCRGTY_PERFORM | "X'40" Perform |
| | | ..1. | | SVDCRGTY_SYSTEM_NAME | "X'20" System Name Group |
| 42 | (2A) | CHARACTER | 1 | SVDCRGTY_BYTE3 | Reserved for future types |
| 43 | (2B) | CHARACTER | 1 | SVDCRGTY_BYTE4 | Reserved for future types |
| 44 | (2C) | SIGNED | 4 | SVDCRGVO | Offset to the first group value for this group from the beginning of this SVDCRGRP entry |
| 48 | (30) | SIGNED | 2 | SVDCRGVN | Total number of values for this group |
| 50 | (32) | CHARACTER | 2 | | Reserved |
| 52 | (34) | CHARACTER | 8 | SVDCRGIU | Userid of group creator (this field not provided for IWMQRY) |
| 60 | (3C) | CHARACTER | 8 | SVDCRGIT | Timestamp of initial creation (this field not provided for IWMQRY) |
| 68 | (44) | CHARACTER | 8 | SVDCRGRU | Userid of group last update (this field not provided for IWMQRY) |
| 76 | (4C) | CHARACTER | 8 | SVDCRGRT | Timestamp of group last update (this field not provided for IWMQRY) |
| 76 | (4C) | X'54' | 0 | SVDCRGRP_LEN | **SVDCRGRP" |

| Offsets | | | | | |
|---------|-----|------------|-----|--------------|-------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | SVDCRGVS | Group member |
| 0 | (0) | CHARACTER | 8 | SVDCRGVV | Group value |
| 8 | (8) | SIGNED | 2 | SVDCRGSV | Reserved |
| 10 | (A) | CHARACTER | 1 | SVDCRGFL (0) | Group value flags |
| | | 1... | | SVDCRGSU | "X'80" Reserved |
| 11 | (B) | CHARACTER | 1 | | Reserved |

| Offsets | | | | | |
|---------|-----|------------|-----|--------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 12 | (C) | CHARACTER | 32 | SVDCRGDS | Group value definition, this field not applicable for IWMCQRY |
| 12 | (C) | X'2C' | 0 | SVDCRGVS_LEN | **-SVDCRGVS" |

| Offsets | | | | | |
|---------|------|------------|-----|------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | SVDCREXT | Extension section entry |
| 0 | (0) | CHARACTER | 8 | SVDCRVID | Unique vendor id that owns the entry |
| 8 | (8) | CHARACTER | 4 | SVDCRROB | Related subsystem type name - name of subsystem which this extension entry extends |
| 12 | (C) | CHARACTER | 4 | | Reserved in case 8-character extension becomes necessary |
| 16 | (10) | SIGNED | 2 | SVDCREDL | Extended data length |
| 18 | (12) | CHARACTER | 2 | | Reserved |
| 20 | (14) | SIGNED | 4 | SVDCREDO | Offset to extended data - offset is from the beginning of the extended data whose offset is in SVDCR_EXT_DATA_OFF |

| Comment | | | | | |
|---------|--|--|--|--|--|
|---------|--|--|--|--|--|

Constants

| End of Comment | | | | | |
|----------------|------|-----------|---|--------------------|---|
| 20 | (14) | X'E5C4C3' | 0 | SVDCR_ID | "C'SVDC" SVDCR identifier |
| 20 | (14) | X'0' | 0 | SVDCR_LEVEL000 | "0" Functionality level introduced by WLM in SP510 before migration coexistence |
| 20 | (14) | X'1' | 0 | SVDCR_LEVEL001 | "1" Functionality level introduced by WLM in SP510. |
| 20 | (14) | X'1' | 0 | SVDCR_SP510 | "1" WLM SP510 version |
| 20 | (14) | X'2' | 0 | SVDCR_LEVEL002 | "2" Functionality level introduced by WLM in SP520. |
| 20 | (14) | X'2' | 0 | SVDCR_SP520 | "2" WLM SP520 version |
| 20 | (14) | X'3' | 0 | SVDCR_LEVEL003 | "3" Functionality level introduced by WLM in OS/390 V1R3. |
| 20 | (14) | X'3' | 0 | SVDCR_SP530 | "3" WLM version number for OS/390 V1R3 |
| 20 | (14) | X'4' | 0 | SVDCR_LEVEL004 | "4" Functionality level introduced by WLM in OS/390 V2R4 |
| 20 | (14) | X'4' | 0 | SVDCR_SP604 | "4" WLM version number for OS/390 V2R4 |
| 20 | (14) | X'5' | 0 | SVDCR_LEVEL005 | "5" Functionality level introduced by WLM in OS/390 V2R5 |
| 20 | (14) | X'5' | 0 | SVDCR_SP605 | "5" WLM version number for OS/390 V2R5 |
| 20 | (14) | X'6' | 0 | SVDCR_LEVEL006 | "6" Functionality level introduced by WLM in OS/390 V2R6 |
| 20 | (14) | X'6' | 0 | SVDCR_SP606 | "6" WLM version number for OS/390 V2R6 |
| 20 | (14) | X'7' | 0 | SVDCR_LEVEL007 | "7" Functionality level introduced by WLM in OS/390 V2R7 |
| 20 | (14) | X'7' | 0 | SVDCR_SP607 | "7" WLM version number for OS/390 V2R7 |
| 20 | (14) | X'8' | 0 | SVDCR_LEVEL008 | "8" Functionality level reserved for WLM OS/390 V2R7 |
| 20 | (14) | X'8' | 0 | SVDCR_SP608 | "8" WLM version number for OS/390 V2R7 |
| 20 | (14) | X'9' | 0 | SVDCR_LEVEL009 | "9" Functionality level reserved for WLM OS/390 V2R8 |
| 20 | (14) | X'9' | 0 | SVDCR_RESERVED_R08 | "9" WLM version number reserved for OS/390 V2R8 |
| 20 | (14) | X'A' | 0 | SVDCR_LEVEL010 | "10" Functionality level reserved for WLM OS/390 V2R9 |
| 20 | (14) | X'A' | 0 | SVDCR_RESERVED_R09 | "10" WLM version number reserved for OS/390 V2R9 |
| 20 | (14) | X'B' | 0 | SVDCR_LEVEL011 | "11" Functionality level introduced by WLM in OS/390 V2R10 |
| 20 | (14) | X'B' | 0 | SVDCR_SP703 | "11" WLM version number for OS/390 V2R10 |
| 20 | (14) | X'C' | 0 | SVDCR_LEVEL012 | "12" Functionality level reserved for WLM in OS/390 V2R11 |
| 20 | (14) | X'C' | 0 | SVDCR_RESERVED_R11 | |

IWMSVDCR Cross Reference

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-------------------|--|
| Dec | Hex | | | | |
| 20 | (14) | X'D' | 0 | SVDCR_LEVEL013 | "12" WLM version number reserved for OS/390 V2R11 |
| 20 | (14) | X'D' | 0 | SVDCR_SP705 | "13" Functionality level introduced by WLM in OS/390 V2R12 |
| 20 | (14) | X'D' | 0 | SVDCR_CURRENT_VER | "13" WLM version number for OS/390 V2R12 |
| | | | | | "13" Current version level used when checking functionality within WLM product |
| 20 | (14) | X'4' | 0 | SVDCR_NLEVEL | "4" SVDCR deepest level of nesting allowed |
| 20 | (14) | X'18' | 0 | SVDCREXT_LEN | "*-SVDCREXT" |

IWMSVDCR Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|--------------------|------------|-----------|--------------------|------------|-----------|
| SVDCR_CURRENT_VER | 14 | D | SVDCR_SP703 | 14 | B |
| SVDCR_EXT_DATA_LEN | 54 | | SVDCR_SP705 | 14 | D |
| SVDCR_EXT_DATA_OFF | 50 | | SVDCR_SST_EXT_NUM | 5C | |
| SVDCR_ID | 14 | E5C4C3 | SVDCR_SST_EXT_OFF | 58 | |
| SVDCR_LEVEL000 | 14 | 0 | SVDCR_SST_EXT_SIZ | 5E | |
| SVDCR_LEVEL001 | 14 | 1 | SVDCRDES | 2C | |
| SVDCR_LEVEL002 | 14 | 2 | SVDCRDIL | 6 | |
| SVDCR_LEVEL003 | 14 | 3 | SVDCREDL | 10 | |
| SVDCR_LEVEL004 | 14 | 4 | SVDCREDO | 14 | |
| SVDCR_LEVEL005 | 14 | 5 | SVDCREXT | 0 | |
| SVDCR_LEVEL006 | 14 | 6 | SVDCREXT_LEN | 14 | 18 |
| SVDCR_LEVEL007 | 14 | 7 | SVDCRGDE | 8 | |
| SVDCR_LEVEL008 | 14 | 8 | SVDCRGDS | C | |
| SVDCR_LEVEL009 | 14 | 9 | SVDCRGFL | A | |
| SVDCR_LEVEL010 | 14 | A | SVDCRGIT | 3C | |
| SVDCR_LEVEL011 | 14 | B | SVDCRGIU | 34 | |
| SVDCR_LEVEL012 | 14 | C | SVDCRGLU | 28 | 4 |
| SVDCR_LEVEL013 | 14 | D | SVDCRGN | 20 | |
| SVDCR_NLEVEL | 14 | 4 | SVDCRGNI | 28 | 8 |
| SVDCR_RESERVED_R08 | 14 | 9 | SVDCRGO | 1C | |
| SVDCR_RESERVED_R09 | 14 | A | SVDCRGRN | 0 | |
| SVDCR_RESERVED_R11 | 14 | C | SVDCRGRP | 0 | |
| SVDCR_SP510 | 14 | 1 | SVDCRGRP_LEN | 4C | 54 |
| SVDCR_SP520 | 14 | 2 | SVDCRGRT | 4C | |
| SVDCR_SP530 | 14 | 3 | SVDCRGRU | 44 | |
| SVDCR_SP604 | 14 | 4 | SVDCRGS | 22 | |
| SVDCR_SP605 | 14 | 5 | SVDCRGSN | 28 | 10 |
| SVDCR_SP606 | 14 | 6 | SVDCRGSU | A | 80 |
| SVDCR_SP607 | 14 | 7 | SVDCRGSV | 8 | |
| SVDCR_SP608 | 14 | 8 | SVDCRGTC | 28 | 40 |
| | | | SVDCRGTN | 28 | 80 |
| | | | SVDCRGTY | 28 | |
| | | | SVDCRGTY_BYTE1 | 28 | |
| | | | SVDCRGTY_BYTE2 | 29 | |
| | | | SVDCRGTY_BYTE3 | 2A | |
| | | | SVDCRGTY_BYTE4 | 2B | |
| | | | SVDCRGTY_CONN_TYPE | 28 | 2 |
| | | | SVDCRGTY_PACK_NAME | 28 | 1 |
| | | | SVDCRGTY_PERFORM | 29 | 40 |
| | | | SVDCRGTY_PLAN_NAME | | |

| Name | Hex Offset | Hex Value |
|----------------------|------------|-----------|
| | 29 | 80 |
| SVDCRGTY_SYSTEM_NAME | 29 | 20 |
| SVDCRGUI | 28 | 20 |
| SVDCRGVN | 30 | |
| SVDCRGVO | 2C | |
| SVDCRGVS | 0 | |
| SVDCRGVS_LEN | C | 2C |
| SVDCRGVV | 0 | |
| SVDCRHDR | 0 | |
| SVDCRHDR_LEN | 60 | 80 |
| SVDCRLN | 2C | |
| SVDCRLVL | 4 | |
| SVDCRNAM | 0 | |
| SVDCRRAC | 0 | 2 |
| SVDCRRCI | 10 | 8 |
| SVDCRRCN | 14 | |
| SVDCRRFL | 10 | |
| SVDCRRF2 | 11 | |
| SVDCRRF3 | 12 | |
| SVDCRRGI | 10 | 2 |
| SVDCRRLU | 0 | 4 |
| SVDCRRLV | 24 | |
| SVDCRRN | 18 | |
| SVDCRRNI | 0 | 8 |
| SVDCRRO | 14 | |
| SVDCRROB | 8 | |
| SVDCRRPI | 10 | 4 |
| SVDCRRPN | 1C | |
| SVDCRRQT | 0 | |
| SVDCRRQT_BYTE1 | 0 | |
| SVDCRRQT_BYTE2 | 1 | |
| SVDCRRQT_BYTE3 | 2 | |
| SVDCRRQT_BYTE4 | 3 | |
| SVDCRRQT_B3_RSV01 | 2 | 1 |
| SVDCRRQT_B3_RSV02 | 2 | 2 |
| SVDCRRQT_B3_RSV04 | 2 | 4 |
| SVDCRRQT_B4_RSV01 | 3 | 1 |
| SVDCRRQT_B4_RSV02 | 3 | 2 |
| SVDCRRQT_B4_RSV04 | 3 | 4 |
| SVDCRRQT_B4_RSV08 | 3 | 8 |
| SVDCRRQT_B4_RSV10 | 3 | 10 |
| SVDCRRQT_B4_RSV20 | 3 | 20 |
| SVDCRRQT_B4_RSV40 | 3 | 40 |
| SVDCRRQT_B4_RSV80 | 3 | 80 |
| SVDCRRQT_COLL_NAME | 1 | 80 |
| SVDCRRQT_CONN_TYPE | 1 | 20 |
| SVDCRRQT_CORR_INFO | | |

| Name | Hex Offset | Hex Value |
|---------------------------------|------------|-----------|
| | 1 | 40 |
| SVDCRRQT_PACK_NAME | 1 | 10 |
| SVDCRRQT_PERFORM | 1 | 4 |
| SVDCRRQT_PLAN_NAME | 1 | 8 |
| SVDCRRQT_PRIORITY | 1 | 1 |
| SVDCRRQT_PROC_NAME | 1 | 2 |
| SVDCRRQT_PROCESS_NAME | 2 | 80 |
| SVDCRRQT_SCHEDULING_ENVIRONMENT | 2 | 8 |
| SVDCRRQT_SUBSYSTEM_COLLECTION | 2 | 10 |
| SVDCRRQT_SYSPLEX_NAME | 2 | 20 |
| SVDCRRQT_SYSTEM_NAME | 2 | 40 |
| SVDCRRQV | 4 | |
| SVDCRRS | 1A | |
| SVDCRRSN | 0 | 10 |
| SVDCRRSP | 0 | 1 |
| SVDCRRSU | 10 | 20 |
| SVDCRRSV | C | |
| SVDCRRTC | 0 | 40 |
| SVDCRRTN | 0 | 80 |
| SVDCRRUI | 0 | 20 |
| SVDCRRUL | 0 | |
| SVDCRRUL_LEN | 2C | 4C |
| SVDCRSCI | 24 | 80 |
| SVDCRSCN | 28 | |
| SVDCRSDE | 4 | |
| SVDCRSFL | 24 | |
| SVDCRSIT | 48 | |
| SVDCRSIU | 40 | |
| SVDCRSIZ | 8 | |
| SVDCRSN | 10 | |
| SVDCRSNM | 0 | |
| SVDCRSO | C | |
| SVDCRSPI | 24 | 40 |
| SVDCRSPN | 30 | |
| SVDCRSRN | 3C | |
| SVDCRSRO | 38 | |
| SVDCRSRT | 58 | |
| SVDCRSRU | 50 | |
| SVDCRSS | 12 | |
| SVDCRSST | 0 | |
| SVDCRSST_LEN | 58 | 60 |
| SVDCRSTR | 10 | 1 |
| SVDCRTRM | 12 | 80 |
| SVDCRVID | 0 | |
| SVDCRVN | 28 | |
| SVDCRVO | 24 | |
| SVDCRVVS | 2A | |
| SVDCRWVN | 5 | |

IWMSVDEF Programming Interface information

Programming Interface information

IWMSVDEF

End of Programming Interface information

IWMSVDEF Heading Information

Common Name: WLM Service Definition mapping
Macro ID: IWMSVDEF
DSECT Name: SVDEFHDR SVDEFPOL SVDEFWKL SVDEFSCCL SVDEFGRP SVDEFRCCL
 SVDEFCLA SVDEFPPDA SVDEFRGA SVDEFCON SVDEFEXT
Owning Component: Workload Manager (SCWLM)
Eye-Catcher ID: SVDE
 Offset: 0
 Length: CHAR(4)
Storage Attributes: Subpool: Any
 Key: Any
 Residency: Above 16M line
Size: Determined at run time
Created by: Caller
Pointed to by: offset into SERV D (IWMSERV D)
Serialization: None
Function: Contains general service definition information including service policies, workloads, service classes, report classes, resource groups, base and override service classes (including the period information), base and override resource group values, and constant information. All timestamps are local time expressed in STCK format.

IWMSVDEF Map

| Offsets | | | | | |
|---|------|------------|-----|------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | SVDEFHDR | |
| 0 | (0) | CHARACTER | 4 | SVDEFNAM | Eyecatcher (SVDE) |
| 4 | (4) | SIGNED | 1 | SVDEFVL | Functionality level of the SVDEF. |
| Comment | | | | | |
| The functionality level defines the highest level of WLM function@P2A that exists in the SVDEF. | | | | | |
| End of Comment | | | | | |
| 5 | (5) | SIGNED | 1 | SVDEFWVN | WLM version number |
| 6 | (6) | SIGNED | 2 | SVDEFDIL | Size of header section |
| 8 | (8) | CHARACTER | 32 | SVDEFDES | Service definition description |
| 40 | (28) | SIGNED | 4 | SVDEFSIZ | Size of SVDEF |
| 44 | (2C) | SIGNED | 4 | SVDEFPO | Offset of policy section if the number of policies is nonzero (otherwise this field is ignored) |
| 48 | (30) | SIGNED | 2 | SVDEFPPN | Number of policy entries |
| 50 | (32) | SIGNED | 2 | SVDEFPS | Size of policy entry |
| 52 | (34) | SIGNED | 4 | SVDEFWO | Offset of workload section if the number of workloads is nonzero (otherwise this field is ignored) |
| 56 | (38) | SIGNED | 2 | SVDEFWN | Number of workload entries |
| 58 | (3A) | SIGNED | 2 | SVDEFWS | Size of workload entry |
| 60 | (3C) | SIGNED | 4 | SVDEFSCO | Offset of service class section if number of service classes is nonzero (otherwise this field is ignored) |
| 64 | (40) | SIGNED | 2 | SVDEFSCN | Number of service class entries |
| 66 | (42) | SIGNED | 2 | SVDEFSCS | Size of service class entry |
| 68 | (44) | SIGNED | 4 | SVDEFSGO | Offset of resource group section if number of resource groups is nonzero (otherwise this field is ignored) |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------------|--|
| Dec | Hex | | | | |
| 72 | (48) | SIGNED | 2 | SVDEFGN | Number of resource group entries |
| 74 | (4A) | SIGNED | 2 | SVDEFGS | Size of resource group entry |
| 76 | (4C) | SIGNED | 4 | SVDEFRO | Offset of report class section if number of report classes is nonzero (otherwise this field is ignored) |
| 80 | (50) | SIGNED | 2 | SVDEFNRN | Number of report class entries |
| 82 | (52) | SIGNED | 2 | SVDEFNRS | Size of report class entry |
| 84 | (54) | SIGNED | 4 | SVDEFCAO | Offset of service class attribute section if number of service class attributes is nonzero (otherwise this field is ignored) |
| 88 | (58) | SIGNED | 2 | SVDEFKAN | Number of service class attribute entries |
| 90 | (5A) | SIGNED | 2 | SVDEFKAS | Size of service class attribute entry |
| 92 | (5C) | SIGNED | 4 | SVDEFGAO | Offset of resource group attribute section if number of service class attributes is nonzero (otherwise this field is ignored) |
| 96 | (60) | SIGNED | 2 | SVDEFGAN | Number of resource group attribute entries |
| 98 | (62) | SIGNED | 2 | SVDEFGAS | Size of resource group attribute entry |
| 100 | (64) | SIGNED | 4 | SVDEFKNO | Offset of constant information section |
| 104 | (68) | SIGNED | 2 | SVDEFKNS | Size of constant information entry |
| 106 | (6A) | SIGNED | 2 | SVDEFKPS | Size of each service class period entry |
| 108 | (6C) | CHARACTER | 32 | SVDEFID (0) | Service definition id starts here (can be mapped by SVIDSSVD in IWMSVIDS) |
| 108 | (6C) | CHARACTER | 8 | SVDEFIDN | Service definition name |
| 116 | (74) | CHARACTER | 8 | SVDEFIDI | Timestamp (STCK format) in local time the service definition was installed (on install processing (IWMDINST) this field is set by WLM) |
| 124 | (7C) | CHARACTER | 8 | SVDEFIDU | Userid of the service administrator that installed the service definition (on install processing (IWMDINST) this field is set by WLM) |
| 132 | (84) | CHARACTER | 8 | SVDEFIDS | Name of the system on which the service definition was installed (on install processing (IWMDINST) this field is set by WLM) |
| 140 | (8C) | CHARACTER | 32 | SVDEFPRO | Reserved for additional triplets |
| 172 | (AC) | CHARACTER | 32 | | ID of product which performed the installation (mapped by SVIDSPRD) |
| 204 | (CC) | SIGNED | 4 | SVDEF_EXT_OFF | Offset of service definition extension section if number of service definition extensions is nonzero (otherwise this field is ignored) |
| 208 | (D0) | SIGNED | 2 | SVDEF_EXT_NUM | Number of service definition extension entries |
| 210 | (D2) | SIGNED | 2 | SVDEF_EXT_SIZ | Size of service definition extension entry |
| 212 | (D4) | SIGNED | 4 | SVDEF_SP_EXT_OFF | Offset of policy extension section if number of policy extensions is nonzero (otherwise this field is ignored) |
| 216 | (D8) | SIGNED | 2 | SVDEF_SP_EXT_NUM | Number of policy extension entries |
| 218 | (DA) | SIGNED | 2 | SVDEF_SP_EXT_SIZ | Size of policy extension entry |
| 220 | (DC) | SIGNED | 4 | SVDEF_WD_EXT_OFF | Offset of workload extension section if number of workload extensions is nonzero (otherwise this field is ignored) |
| 224 | (E0) | SIGNED | 2 | SVDEF_WD_EXT_NUM | Number of workload extension entries |
| 226 | (E2) | SIGNED | 2 | SVDEF_WD_EXT_SIZ | Size of workload extension entry |
| 228 | (E4) | SIGNED | 4 | SVDEF_CD_EXT_OFF | Offset of service class extension section if number of service class extensions is nonzero (otherwise this field is ignored) |
| 232 | (E8) | SIGNED | 2 | SVDEF_CD_EXT_NUM | Number of service class extension entries |
| 234 | (EA) | SIGNED | 2 | SVDEF_CD_EXT_SIZ | Size of service class extension entry |
| 236 | (EC) | SIGNED | 4 | SVDEF_RG_EXT_OFF | |

IWMSVDEF Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|--------------------|--|
| Dec | Hex | | | | |
| | | | | | Offset of resource group extension section if number of resource group extensions is nonzero (otherwise this field is ignored) |
| 240 | (F0) | SIGNED | 2 | SVDEF_RG_EXT_NUM | Number of resource group extension entries |
| 242 | (F2) | SIGNED | 2 | SVDEF_RG_EXT_SIZ | Size of resource group extension entry |
| 244 | (F4) | SIGNED | 4 | SVDEF_RD_EXT_OFF | Offset of report class extension section if number of report class extensions is nonzero (otherwise this field is ignored) |
| 248 | (F8) | SIGNED | 2 | SVDEF_RD_EXT_NUM | Number of report class extension entries |
| 250 | (FA) | SIGNED | 2 | SVDEF_RD_EXT_SIZ | Size of report class extension entry |
| 252 | (FC) | SIGNED | 4 | SVDEF_CLA_EXT_OFF | Offset of service class attribute extension section if number of service class attribute extensions is nonzero (otherwise this field is ignored) |
| 256 | (100) | SIGNED | 2 | SVDEF_CLA_EXT_NUM | Number of service class attribute extension entries |
| 258 | (102) | SIGNED | 2 | SVDEF_CLA_EXT_SIZ | Size of service class attribute extension entry |
| 260 | (104) | SIGNED | 4 | SVDEF_RGA_EXT_OFF | Offset of resource group attribute extension section if number of resource class attribute extensions is nonzero (otherwise this field is ignored) |
| 264 | (108) | SIGNED | 2 | SVDEF_RGA_EXT_NUM | Number of resource group attribute extension entries |
| 266 | (10A) | SIGNED | 2 | SVDEF_RGA_EXT_SIZ | Size of resource group attribute extension entry |
| 268 | (10C) | CHARACTER | 32 | | Reserved for additional extension triplets |
| 300 | (12C) | SIGNED | 4 | SVDEF_EXT_DATA_OFF | Offset of extended data (0 if no extended data exists) |
| 304 | (130) | SIGNED | 4 | SVDEF_EXT_DATA_LEN | Length of extended data |
| 308 | (134) | CHARACTER | 4 | | Reserved |
| 308 | (134) | X'138' | 0 | SVDEFHDR_LEN | "*-SVDEFHDR" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|--------------|---------------------------------|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | SVDEFPOL | Service policy section |
| 0 | (0) | CHARACTER | 8 | SVDEFPMN | Policy name |
| 8 | (8) | CHARACTER | 32 | SVDEFPDE | Policy description |
| 40 | (28) | CHARACTER | 8 | SVDEFPIU | Userid of policy creator |
| 48 | (30) | CHARACTER | 8 | SVDEFPIU | Timestamp of initial creation |
| 56 | (38) | CHARACTER | 8 | SVDEFPRU | Userid of policy last update |
| 64 | (40) | CHARACTER | 8 | SVDEFPRU | Timestamp of policy last update |
| 64 | (40) | X'48' | 0 | SVDEFPOL_LEN | "*-SVDEFPOL" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|--------------|-----------------------------------|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | SVDEFWKL | Workload section |
| 0 | (0) | CHARACTER | 8 | SVDEFWNM | Workload name |
| 8 | (8) | CHARACTER | 32 | SVDEFWDE | Workload description |
| 40 | (28) | CHARACTER | 8 | SVDEFWIU | Userid of workload creator |
| 48 | (30) | CHARACTER | 8 | SVDEFWIT | Timestamp of initial creation |
| 56 | (38) | CHARACTER | 8 | SVDEFWRU | Userid of workload last update |
| 64 | (40) | CHARACTER | 8 | SVDEFWRT | Timestamp of workload last update |
| 64 | (40) | X'48' | 0 | SVDEFWKL_LEN | "*-SVDEFWKL" |

| Offsets | | | | | |
|---------|------|------------|-----|---------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | SVDEFSCCL | Service class section |
| 0 | (0) | CHARACTER | 8 | SVDEFSCNM | Service class name |
| 8 | (8) | CHARACTER | 32 | SVDEFSCDE | Service class description |
| 40 | (28) | CHARACTER | 8 | SVDEFSCWN | Name of associated workload |
| 48 | (30) | CHARACTER | 8 | SVDEFSCIU | Userid of service class creator |
| 56 | (38) | CHARACTER | 8 | SVDEFSCIT | Timestamp of initial creation |
| 64 | (40) | CHARACTER | 8 | SVDEFSCRU | Userid of service class last update |
| 72 | (48) | CHARACTER | 8 | SVDEFSCRT | Timestamp of service class last update |
| 72 | (48) | X'50' | 0 | SVDEFSCCL_LEN | **SVDEFSCCL" |

| Offsets | | | | | |
|---------|------|------------|-----|--------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | SVDEFGRP | Resource group section |
| 0 | (0) | CHARACTER | 8 | SVDEFGRNM | Resource group name |
| 8 | (8) | CHARACTER | 32 | SVDEFGRDE | Resource group description |
| 40 | (28) | CHARACTER | 8 | SVDEFGRUI | Userid of resource group creator |
| 48 | (30) | CHARACTER | 8 | SVDEFGRIT | Timestamp of initial creation |
| 56 | (38) | CHARACTER | 8 | SVDEFGRU | Userid of resource group last update |
| 64 | (40) | CHARACTER | 8 | SVDEFGRRT | Timestamp of resource group last update |
| 64 | (40) | X'48' | 0 | SVDEFGRP_LEN | **SVDEFGRP" |

| Offsets | | | | | |
|---------|------|------------|-----|--------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | SVDEFRCL | Report class section |
| 0 | (0) | CHARACTER | 8 | SVDEFRNM | Report class name |
| 8 | (8) | CHARACTER | 32 | SVDEFRDE | Report class description |
| 40 | (28) | CHARACTER | 8 | SVDEFRIU | Userid of report class creator |
| 48 | (30) | CHARACTER | 8 | SVDEFRIT | Timestamp of initial creation |
| 56 | (38) | CHARACTER | 8 | SVDEFRRU | Userid of report class last update |
| 64 | (40) | CHARACTER | 8 | SVDEFRRRT | Timestamp of report class recent update |
| 64 | (40) | X'48' | 0 | SVDEFRCL_LEN | **SVDEFRCL" |

| Offsets | | | | | |
|---------|------|------------|-----|---------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | SVDEFCLA | Service class attributes section |
| 0 | (0) | CHARACTER | 8 | SVDEFSCN | Service class name with which this attribute is associated |
| 8 | (8) | CHARACTER | 8 | SVDEFSPN | Name of policy that service class attribute is associated with (this field will be blanks if it is a base attribute) |
| 16 | (10) | CHARACTER | 8 | SVDEF CGN | Name of the resource group this service class is associated with - blanks if no resource group association |
| 24 | (18) | SIGNED | 2 | SVDEF CPN | Number of service class periods for this service class attribute |
| 26 | (1A) | CHARACTER | 1 | SVDEF FLG (0) | Service Class Attribute |
| | | 1... | | SVDEF CPC | "X'80" Service Class CPU protection attribute |
| 27 | (1B) | CHARACTER | 5 | SVDEF CAT | Reserved (keep structure on dword boundary) |
| 27 | (1B) | X'20' | 0 | SVDEFCLA_LEN | **SVDEFCLA" |

| Offsets | | | | | |
|---------|-----|------------|-----|---------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | SVDEF PDA | Service class period data mapping |
| 0 | (0) | BITSTRING | 1 | SVDEF TYP (0) | Goal type indicators - mutually exclusive |
| | | 1... | | SVDEF PRC | "X'80" Percentile response time goal |
| | | .1.. | | SVDEF AVG | "X'40" Average response time goal |
| | | ..1. | | SVDEF VEL | "X'20" Velocity goal |
| | | ...1 | | SVDEF DSC | "X'10" Discretionary goal |
| 1 | (1) | SIGNED | 1 | SVDEF RTU | Response time unit indicator - indicates the units in which the SVDEFVAL field is expressed 1 => milliseconds, 2 => seconds 3 => minutes, 4 => hours |

IWMSVDEF Map

| Offsets | | | | | |
|---------|-----|------------|-----|---------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 2 | (2) | SIGNED | 2 | SVDEFPER | Goal percentile value |
| 4 | (4) | SIGNED | 2 | SVDEFIMP | Importance level 1 (most important) to 5 (least important). Must be specified for all goal types except discretionary (for discretionary, importance is ignored) |
| 6 | (6) | SIGNED | 2 | | Reserved |
| 8 | (8) | SIGNED | 4 | SVDEFVAL | Response time goal or speed goal Zero if discretionary or if no goal defined |
| 12 | (C) | SIGNED | 4 | SVDEFDUR | Service class period duration, in service units, or zero for last period |
| 12 | (C) | X'10' | 0 | SVDEFPPDA_LEN | **-SVDEFPPDA" |

| Offsets | | | | | |
|---------|------|------------|-----|--------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | SVDEFRGA | Resource group attributes section |
| 0 | (0) | CHARACTER | 8 | SVDEFRGN | Resource group name |
| 8 | (8) | CHARACTER | 8 | SVDEFRPN | Resource group attribute policy name |
| 16 | (10) | SIGNED | 4 | SVDEFGMN | Minimum service rate, in raw CPU service units |
| 20 | (14) | SIGNED | 4 | SVDEFGMX | Maximum service rate, in raw CPU service units |
| 24 | (18) | BITSTRING | 4 | SVDEFGLT (0) | Indicators |
| | | 1... | | SVDEFMXS | "X'80" Maximum service rate was specified |
| | | .1.. | | SVDEFMNS | "X'40" Minimum service rate was specified |
| 28 | (1C) | CHARACTER | 4 | | Reserved (keep structure on Dword boundary) |
| 28 | (1C) | X'20' | 0 | SVDEFRGA_LEN | **-SVDEFRGA" |

| Offsets | | | | | |
|---------|------|------------|-----|--------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | SVDEFCON | Constants |
| 0 | (0) | BITSTRING | 1 | SVDEFFL1 (0) | Flag 1 |
| | | 1... | | SVDEFSCO | "X'80" Service coefficients were specified |
| 1 | (1) | BITSTRING | 1 | SVDEFFL2 (0) | Flag 2 |
| | | 1... | | SVDEFIOM | "X'80" When set indicates that we should include the I/O delays in the execution velocity |
| | | .1.. | | SVDEFDAM | "X'40" When set indicates dynamic alias tuning is available |
| 2 | (2) | BITSTRING | 1 | SVDEFFL3 | Flag 3 - reserved |
| 3 | (3) | BITSTRING | 1 | SVDEFFL4 | Flag 4 - reserved |
| 4 | (4) | SIGNED | 4 | SVDEFCPU | CPU service coefficient * 10000 - the number by which accumulated CPU service units will be multiplied (weighted) |
| 8 | (8) | SIGNED | 4 | SVDEFIOC | I/O service coefficient * 10000 - the number by which accumulated I/O service units will be multiplied (weighted) |
| 12 | (C) | SIGNED | 4 | SVDEFMSO | Storage service coefficient * 10000 - the number by which accumulated storage service units will be multiplied (weighted) |
| 16 | (10) | SIGNED | 4 | SVDEFSRB | SRB service coefficient * 10000 - the number by which accumulated SRB service units will be multiplied (weighted) |
| 20 | (14) | CHARACTER | 28 | | Reserved (keep structure on dword boundary) |
| 20 | (14) | X'30' | 0 | SVDEFCON_LEN | **-SVDEFCON" |

| Offsets | | | | | |
|---------|------|------------|-----|------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | SVDEFEXT | Extension section entry |
| 0 | (0) | CHARACTER | 8 | SVDEFVID | Vendor/product id that owns the entry |
| 8 | (8) | CHARACTER | 8 | SVDEFROB | Related object name - name of object (for example, service class name SVDEFCONM) which this extension entry extends |
| 16 | (10) | CHARACTER | 8 | SVDEFEPN | Related policy name - valid only if this entry extends a service class attribute or resource group attribute entry (otherwise this field is ignored). Note that a value of blanks indicates that the attribute which this entry extends is a base attribute |
| 24 | (18) | SIGNED | 2 | SVDEFEDL | Extended data length |
| 26 | (1A) | CHARACTER | 2 | | Reserved |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|----------------|------|------------|-----|--------------------|---|
| Dec | Hex | | | | |
| 28 | (1C) | SIGNED | 4 | SVDEFEDO | Offset to extended data - offset is from the beginning of the extended data whose offset is in SVDEF_EXT_DATA_OFF |
| Comment | | | | | |
| Constants | | | | | |
| End of Comment | | | | | |
| 28 | (1C) | X'1' | 0 | SVDEF_RTU_MS | "1" SVDEFRTU value indicating that SVDEFVAL value is expressed in milliseconds |
| 28 | (1C) | X'2' | 0 | SVDEF_RTU_SECOND | "2" SVDEFRTU value indicating that SVDEFVAL value is expressed in seconds |
| 28 | (1C) | X'3' | 0 | SVDEF_RTU_MINUTE | "3" SVDEFRTU value indicating that SVDEFVAL value is expressed in minutes |
| 28 | (1C) | X'4' | 0 | SVDEF_RTU_HOUR | "4" SVDEFRTU value indicating that SVDEFVAL value is expressed in hours |
| 28 | (1C) | X'E5C4C5' | 0 | SVDEF_NAME | "C'SVDE'" 'SVDE' acronym |
| 28 | (1C) | X'1' | 0 | SVDEF_LEVEL001 | "1" Functionality level introduced by WLM in SP510. |
| 28 | (1C) | X'1' | 0 | SVDEF_SP510 | "1" WLM SP510 version |
| 28 | (1C) | X'2' | 0 | SVDEF_LEVEL002 | "2" Functionality level introduced by WLM in SP520. |
| 28 | (1C) | X'2' | 0 | SVDEF_SP520 | "2" WLM SP520 version |
| 28 | (1C) | X'3' | 0 | SVDEF_LEVEL003 | "3" Functionality level introduced by WLM in OS/390 V1R3 |
| 28 | (1C) | X'3' | 0 | SVDEF_SP530 | "3" WLM version number for OS/390 V1R3 |
| 28 | (1C) | X'4' | 0 | SVDEF_LEVEL004 | "4" Functionality level introduced by WLM in OS/390 V2R4 |
| 28 | (1C) | X'4' | 0 | SVDEF_SP604 | "4" WLM version number for OS/390 V2R4 |
| 28 | (1C) | X'5' | 0 | SVDEF_LEVEL005 | "5" Functionality level introduced by WLM in OS/390 V2R5 |
| 28 | (1C) | X'5' | 0 | SVDEF_SP605 | "5" WLM version number for OS/390 V2R5 |
| 28 | (1C) | X'6' | 0 | SVDEF_LEVEL006 | "6" Functionality level introduced by WLM in OS/390 V2R6 |
| 28 | (1C) | X'6' | 0 | SVDEF_SP606 | "6" WLM version number for OS/390 V2R6 |
| 28 | (1C) | X'7' | 0 | SVDEF_LEVEL007 | "7" Functionality level introduced by WLM in OS/390 V2R7 |
| 28 | (1C) | X'7' | 0 | SVDEF_SP607 | "7" WLM version number for OS/390 V2R7 |
| 28 | (1C) | X'8' | 0 | SVDEF_LEVEL008 | "8" Functionality level introduced by WLM in OS/390 V2R7 |
| 28 | (1C) | X'8' | 0 | SVDEF_SP608 | "8" WLM version number for OS/390 V2R7 |
| 28 | (1C) | X'9' | 0 | SVDEF_LEVEL009 | "9" Functionality level reserved for WLM OS/390 V2R8 |
| 28 | (1C) | X'9' | 0 | SVDEF_RESERVED_R08 | "9" WLM version number reserved for OS/390 V2R8 |
| 28 | (1C) | X'A' | 0 | SVDEF_LEVEL010 | "10" Functionality level reserved for WLM OS/390 V2R9 |
| 28 | (1C) | X'A' | 0 | SVDEF_RESERVED_R09 | "10" WLM version number reserved for OS/390 V2R9 |
| 28 | (1C) | X'B' | 0 | SVDEF_LEVEL011 | "11" Functionality level introduced by WLM in OS/390 V2R10 |
| 28 | (1C) | X'B' | 0 | SVDEF_SP703 | "11" WLM version number for OS/390 V2R10 |
| 28 | (1C) | X'C' | 0 | SVDEF_LEVEL012 | "12" Functionality level reserved for WLM OS/390 V2R11 |
| 28 | (1C) | X'C' | 0 | SVDEF_RESERVED_R11 | "12" WLM version number reserved for OS/390 V2R11 |
| 28 | (1C) | X'D' | 0 | SVDEF_LEVEL013 | "13" Functionality level introduced by WLM in OS/390 V2R12 |
| 28 | (1C) | X'D' | 0 | SVDEF_SP705 | "13" WLM version number for OS/390 V2R12 |
| 28 | (1C) | X'D' | 0 | SVDEF_CURRENT_VER | |

IWMSVDEF Cross Reference

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|--------------|--|
| Dec | Hex | | | | |
| 28 | (1C) | X'20' | 0 | SVDEFEXT_LEN | "13" Current version level used when checking functionality within WLM product. "-SVDEFEXT" |

IWMSVDEF Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|--------------------|------------|-----------|--------------------|------------|-----------|
| SVDEF_CD_EXT_NUM | E8 | | SVDEF_RESERVED_R08 | 1C | 9 |
| SVDEF_CD_EXT_OFF | E4 | | SVDEF_RESERVED_R09 | 1C | A |
| SVDEF_CD_EXT_SIZ | EA | | SVDEF_RESERVED_R11 | 1C | C |
| SVDEF_CLA_EXT_NUM | 100 | | SVDEF_RG_EXT_NUM | F0 | |
| SVDEF_CLA_EXT_OFF | FC | | SVDEF_RG_EXT_OFF | EC | |
| SVDEF_CLA_EXT_SIZ | 102 | | SVDEF_RG_EXT_SIZ | F2 | |
| SVDEF_CURRENT_VER | 1C | D | SVDEF_RGA_EXT_NUM | 108 | |
| SVDEF_EXT_DATA_LEN | 130 | | SVDEF_RGA_EXT_OFF | 104 | |
| SVDEF_EXT_DATA_OFF | 12C | | SVDEF_RGA_EXT_SIZ | 10A | |
| SVDEF_EXT_NUM | D0 | | SVDEF_RTU_HOUR | 1C | 4 |
| SVDEF_EXT_OFF | CC | | SVDEF_RTU_MINUTE | 1C | 3 |
| SVDEF_EXT_SIZ | D2 | | SVDEF_RTU_MS | 1C | 1 |
| SVDEF_LEVEL001 | 1C | 1 | SVDEF_RTU_SECOND | 1C | 2 |
| SVDEF_LEVEL002 | 1C | 2 | SVDEF_SP_EXT_NUM | D8 | |
| SVDEF_LEVEL003 | 1C | 3 | SVDEF_SP_EXT_OFF | D4 | |
| SVDEF_LEVEL004 | 1C | 4 | SVDEF_SP_EXT_SIZ | DA | |
| SVDEF_LEVEL005 | 1C | 5 | SVDEF_SP510 | 1C | 1 |
| SVDEF_LEVEL006 | 1C | 6 | SVDEF_SP520 | 1C | 2 |
| SVDEF_LEVEL007 | 1C | 7 | SVDEF_SP530 | 1C | 3 |
| SVDEF_LEVEL008 | 1C | 8 | SVDEF_SP604 | 1C | 4 |
| SVDEF_LEVEL009 | 1C | 9 | SVDEF_SP605 | 1C | 5 |
| SVDEF_LEVEL010 | 1C | A | SVDEF_SP606 | 1C | 6 |
| SVDEF_LEVEL011 | 1C | B | SVDEF_SP607 | 1C | 7 |
| SVDEF_LEVEL012 | 1C | C | SVDEF_SP608 | 1C | 8 |
| SVDEF_LEVEL013 | 1C | D | SVDEF_SP703 | 1C | B |
| SVDEF_NAME | 1C | E5C4C5 | SVDEF_SP705 | 1C | D |
| SVDEF_RD_EXT_NUM | F8 | | SVDEF_WD_EXT_NUM | E0 | |
| SVDEF_RD_EXT_OFF | F4 | | SVDEF_WD_EXT_OFF | DC | |
| SVDEF_RD_EXT_SIZ | | | SVDEF_WD_EXT_SIZ | E2 | |
| | | | SVDEFAVG | 0 | 40 |
| | | | SVDEFECAN | 58 | |
| | | | SVDEFCAO | 54 | |
| | | | SVDEFECAS | 5A | |
| | | | SVDEFECAT | 1B | |
| | | | SVDEFECDE | 8 | |
| | | | SVDEFECGN | 10 | |
| | | | SVDEFECIT | 38 | |

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|--------------|---------------|--------------|----------------|---------------|--------------|
| SVDEFICIU | 30 | | SVDEFPPDA_LEN | C | 10 |
| SVDEFCLA | 0 | | SVDEFPPDE | 8 | |
| SVDEFCLA_LEN | 1B | 20 | SVDEFPPER | 2 | |
| SVDEFCON | 40 | | SVDEFPIIT | 30 | |
| SVDEFCONM | 0 | | SVDEFPIU | 28 | |
| SVDEFCONO | 64 | | SVDEFPPN | 30 | |
| SVDEFCONS | 68 | | SVDEFPPNM | 0 | |
| SVDEFCON | 3C | | SVDEFPO | 2C | |
| SVDEFCON_LEN | 0 | | SVDEFPOL | 0 | |
| SVDEFCON_LEN | 14 | 30 | SVDEFPOL_LEN | 40 | 48 |
| SVDEFPCPC | 1A | 80 | SVDEFPPRC | 0 | 80 |
| SVDEFPCPN | 18 | | SVDEFPPRO | AC | |
| SVDEFPCPS | 6A | | SVDEFPPRT | 40 | |
| SVDEFPCPU | 4 | | SVDEFPPRU | 38 | |
| SVDEFPCRT | 48 | | SVDEFPPS | 32 | |
| SVDEFPCRU | 40 | | SVDEFPRCL | 0 | |
| SVDEFPCS | 42 | | SVDEFPRCL_LEN | 40 | 48 |
| SVDEFPCWN | 28 | | SVDEFPRDE | 8 | |
| SVDEFDAM | 1 | 40 | SVDEFPRGA | 0 | |
| SVDEFDES | 8 | | SVDEFPRGA_LEN | 1C | 20 |
| SVDEFDIL | 6 | | SVDEFPRGN | 0 | |
| SVDEFDSC | 0 | 10 | SVDEFPRIT | 30 | |
| SVDEFDUR | C | | SVDEFPRIU | 28 | |
| SVDEFEDL | 18 | | SVDEFPRN | 50 | |
| SVDEFEDO | 1C | | SVDEFPRNM | 0 | |
| SVDEFEPN | 10 | | SVDEFPRO | 4C | |
| SVDEFEXT | 0 | | SVDEFPROB | 8 | |
| SVDEFEXT_LEN | 1C | 20 | SVDEFPRPN | 8 | |
| SVDEFFLG | 1A | | SVDEFPRRT | 40 | |
| SVDEFFL1 | 0 | | SVDEFPRRU | 38 | |
| SVDEFFL2 | 1 | | SVDEFPRS | 52 | |
| SVDEFFL3 | 2 | | SVDEFRTU | 1 | |
| SVDEFFL4 | 3 | | SVDEFSCSCL | 0 | |
| SVDEFGAN | 60 | | SVDEFSCSCL_LEN | 48 | 50 |
| SVDEFGAO | 5C | | SVDEFSCN | 0 | |
| SVDEFGAS | 62 | | SVDEFSCO | 0 | 80 |
| SVDEFGDE | 8 | | SVDEFSSIZ | 28 | |
| SVDEFGIT | 30 | | SVDEFSPN | 8 | |
| SVDEFGIU | 28 | | SVDEFSSRB | 10 | |
| SVDEFGLT | 18 | | SVDEFSTDI | 74 | |
| SVDEFGMN | 10 | | SVDEFSTYP | 0 | |
| SVDEFGMX | 14 | | SVDEFVAL | 8 | |
| SVDEFGN | 48 | | SVDEFVEL | 0 | 20 |
| SVDEFGNM | 0 | | SVDEFVID | 0 | |
| SVDEFGO | 44 | | SVDEFWDE | 8 | |
| SVDEFGRP | 0 | | SVDEFWIT | 30 | |
| SVDEFGRP_LEN | 40 | 48 | SVDEFWIU | 28 | |
| SVDEFGRRT | 40 | | SVDEFWKL | 0 | |
| SVDEFGRU | 38 | | SVDEFWKL_LEN | 40 | 48 |
| SVDEFGS | 4A | | SVDEFWN | 38 | |
| SVDEFHDR | 0 | | SVDEFWNM | 0 | |
| SVDEFHDR_LEN | 134 | 138 | SVDEFWO | 34 | |
| SVDEFID | 6C | | SVDEFWRT | 40 | |
| SVDEFIDN | 6C | | SVDEFWRU | 38 | |
| SVDEFIDS | 84 | | SVDEFWS | 3A | |
| SVDEFIDU | 7C | | SVDEFWVN | 5 | |
| SVDEFIMP | 4 | | | | |
| SVDEFIOC | 8 | | | | |
| SVDEFIOM | 1 | 80 | | | |
| SVDEFVLV | 4 | | | | |
| SVDEFMNS | 18 | 40 | | | |
| SVDEFMSO | C | | | | |
| SVDEFMXS | 18 | 80 | | | |
| SVDEFNAM | 0 | | | | |
| SVDEFPPDA | 0 | | | | |

IWMSVIDS Programming Interface information

Programming Interface information

IWMSVIDS

End of Programming Interface information

IWMSVIDS Heading Information

Common Name: WLM Service Definition identifier mappings
Macro ID: IWMSVIDS
DSECT Name: SVIDSSVP (DSECT name of service policy id mapping)
 SVIDSSVD (DSECT name of service definition id mapping)
 SVIDSPRD (DSECT name of product id mapping)
Owning Component: Workload Manager (SCWLM)
Eye-Catcher ID: None
Storage Attributes: Subpool: Any
 Key: Any
 Residency: Above 16M line
Size: Determined at run time
Created by: N/A
Pointed to by: R1 and AR1
Serialization: None
Function: Contains mappings for data returned from the IWMCQRY and IWMDINST services.
 SVIDSSVP (DSECT name of service policy id mapping)
 -This is used to map the output returned via the POLICY_ID keyword of the IWMCQRY service.
 SVIDSSVD (DSECT name of service definition id mapping)
 -This is used to map the output returned via the QRY_BASEID keyword on the IWMDINST service.
 SVIDSPRD (DSECT name of product id mapping)
 -This is used to map the output returned via the PRODUCT_ID keyword on the IWMDINST service.
 All timestamps are local time expressed in STCK format.

IWMSVIDS Map

| Offsets | | | | | |
|---------|-----|------------|-----|--------------------|---------------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | SVIDSSVP | Service policy id mapping |
| 0 | (0) | CHARACTER | 8 | SVIDSSVP_NAME | Service policy name |
| 8 | (8) | CHARACTER | 8 | SVIDSSVP_TIMESTAMP | Activation timestamp |
| 8 | (8) | X'10' | 0 | SVIDSSVP_LEN | **-SVIDSSVP" |

| Offsets | | | | | |
|---------|------|------------|-----|----------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | SVIDSSVD | Service definition id mapping |
| 0 | (0) | CHARACTER | 8 | SVIDSSVD_NAME | Service definition name |
| 8 | (8) | CHARACTER | 8 | SVIDSSVD_TIMESTAMP | Installation timestamp |
| 16 | (10) | CHARACTER | 8 | SVIDSSVD_USERID | Userid that installed the service definition |
| 24 | (18) | CHARACTER | 8 | SVIDSSVD_SYSTEM_NAME | System on which the installation was done |
| 24 | (18) | X'20' | 0 | SVIDSSVD_LEN | **-SVIDSSVD" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------------|--------------------|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | SVIDSPRD | Product id mapping |
| 0 | (0) | CHARACTER | 8 | SVIDSPRD_NAME | Product name |
| 8 | (8) | CHARACTER | 8 | SVIDSPRD_VERSION | |
| 16 | (10) | CHARACTER | 16 | SVIDSPRD_SANDBOX | Version |
| 16 | (10) | X'20' | 0 | SVIDSPRD_LEN | Product sandbox |
| | | | | | **-SVIDSPRD" |

IWMSVIDS Cross Reference

| Name | Hex Offset | Hex Value |
|----------------------|---------------|--------------|
| SVIDSPRD | 0 | |
| SVIDSPRD_LEN | 10 | 20 |
| SVIDSPRD_NAME | | |
| | 0 | |
| SVIDSPRD_SANDBOX | | |
| | 10 | |
| SVIDSPRD_VERSION | | |
| | 8 | |
| SVIDSSVD | 0 | |
| SVIDSSVD_LEN | 18 | 20 |
| SVIDSSVD_NAME | | |
| | 0 | |
| SVIDSSVD_SYSTEM_NAME | | |
| | 18 | |
| SVIDSSVD_TIMESTAMP | | |
| | 8 | |
| SVIDSSVD_USERID | | |
| | 10 | |
| SVIDSSVP | 0 | |
| SVIDSSVP_LEN | 8 | 10 |
| SVIDSSVP_NAME | | |
| | 0 | |
| SVIDSSVP_TIMESTAMP | | |
| | 8 | |

IWMSVNPA Programming Interface information

Programming Interface information

IWMSVNPA

End of Programming Interface information

IWMSVNPA Heading Information

Common Name: WLM Service Definition Notepad mapping
Macro ID: IWMSVNPA
DSECT Name: SVNPAHDR SVNPADAT
Owning Component: Workload Manager (SCWLM)
Eye-Catcher ID: SVNP
 Offset: 0
 Length: CHAR(4)
Storage Attributes: Subpool: Any
 Key: Any
 Residency: Above 16M line
Size: Determined at run time
Created by: Caller
Pointed to by: offset within SERV D (IWMSE RVD) mapping
Serialization: None
Function: Contains service definition notepad information

IWMSVNPA Map

| Offsets | | | | | |
|---------|-----|------------|-----|------------|-----------------------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | SVNPAHDR | Notepad area |
| 0 | (0) | CHARACTER | 4 | SVNPANAM | Eyecatcher is SVNP |
| 4 | (4) | SIGNED | 1 | SVNPALVL | Functionality level of the SVDCR. |

Comment

The functionality level defines the highest level of WLM function@P1A that exists in the SVDCR.

End of Comment

| | | | | | |
|----|------|--------|---|--------------|---|
| 5 | (5) | SIGNED | 1 | SVNPAWVN | WLM version number |
| 6 | (6) | SIGNED | 2 | SVNPADIL | Size of header |
| 8 | (8) | SIGNED | 4 | SVNPASIZ | Size in bytes of notepad area |
| 12 | (C) | SIGNED | 4 | SVNPANDO | Offset of notepad data if number of notepad data entries is nonzero (otherwise this field is ignored) |
| 16 | (10) | SIGNED | 2 | SVNPANDN | Number of notepad data entries |
| 18 | (12) | SIGNED | 2 | SVNPANDS | Size of notepad data entry |
| 18 | (12) | X'14' | 0 | SVNPAHDR_LEN | **SVNPAHDR" |

| Offsets | | | | | |
|---------|-----|------------|-----|------------|----------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | SVNPADAT | Notepad data section |
| 0 | (0) | CHARACTER | 80 | SVNPANPD | Notepad data |

Comment

Constants

End of Comment

| | | | | | |
|---|-----|-----------|---|----------------|---|
| 0 | (0) | X'E5D5D7' | 0 | SVNPA_ID | "C'SVNP'" 'SVNP' identifier |
| 0 | (0) | X'1' | 0 | SVNPA_LEVEL001 | "1" Functionality level introduced by WLM in SP510. |
| 0 | (0) | X'1' | 0 | SVNPA_SP510 | "1" WLM SP510 version |
| 0 | (0) | X'2' | 0 | SVNPA_LEVEL002 | "2" Functionality level introduced by WLM in SP520. |
| 0 | (0) | X'2' | 0 | SVNPA_SP520 | "2" WLM SP520 version |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|---------------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | X'3' | 0 | SVNPA_LEVEL003 | "3" Functionality level introduced by WLM in OS/390 V1R3 |
| 0 | (0) | X'3' | 0 | SVNPA_SP530 | "3" WLM version number for OS/390 V1R3 |
| 0 | (0) | X'4' | 0 | SVNPA_LEVEL004 | "4" Functionality level introduced by WLM in OS/390 V2R4 |
| 0 | (0) | X'4' | 0 | SVNPA_SP604 | "4" WLM version number for OS/390 V2R4 |
| 0 | (0) | X'5' | 0 | SVNPA_LEVEL005 | "5" Functionality level introduced by WLM in OS/390 V2R5 |
| 0 | (0) | X'5' | 0 | SVNPA_SP605 | "5" WLM version number for OS/390 V2R5 |
| 0 | (0) | X'6' | 0 | SVNPA_LEVEL006 | "6" Functionality level introduced by WLM in OS/390 V2R6 |
| 0 | (0) | X'6' | 0 | SVNPA_SP606 | "6" WLM version number for OS/390 V2R6 |
| 0 | (0) | X'7' | 0 | SVNPA_LEVEL007 | "7" Functionality level introduced by WLM in OS/390 V2R7 |
| 0 | (0) | X'7' | 0 | SVNPA_SP607 | "7" WLM version number for OS/390 V2R7 |
| 0 | (0) | X'8' | 0 | SVNPA_LEVEL008 | "8" Functionality level introduced by WLM in OS/390 V2R7 |
| 0 | (0) | X'8' | 0 | SVNPA_SP608 | "8" WLM version number for OS/390 V2R7 |
| 0 | (0) | X'9' | 0 | SVNPA_LEVEL009 | "9" Functionality level reserved for WLM OS/390 V2R8 |
| 0 | (0) | X'9' | 0 | SVNPA_RESERVED_R08 | "9" WLM version number reserved for OS/390 V2R8 |
| 0 | (0) | X'A' | 0 | SVNPA_LEVEL010 | "10" Functionality level reserved for WLM OS/390 V2R9 |
| 0 | (0) | X'A' | 0 | SVNPA_RESERVED_R09 | "10" WLM version number reserved for OS/390 V2R9 |
| 0 | (0) | X'B' | 0 | SVNPA_LEVEL011 | "11" Functionality level introduced by WLM in OS/390 V2R10 |
| 0 | (0) | X'B' | 0 | SVNPA_SP703 | "11" WLM version number for OS/390 V2R10 |
| 0 | (0) | X'C' | 0 | SVNPA_LEVEL012 | "12" Functionality level reserved for WLM OS/390 V2R11 |
| 0 | (0) | X'C' | 0 | SVNPA_RESERVED_R11 | "12" WLM version number reserved for OS/390 V2R11 |
| 0 | (0) | X'D' | 0 | SVNPA_LEVEL013 | "13" Functionality level introduced by WLM in OS/390 V2R12 |
| 0 | (0) | X'D' | 0 | SVNPA_SP705 | "13" WLM version number for OS/390 V2R12 |
| 0 | (0) | X'D' | 0 | SVNPA_CURRENT_VER | "13" Current version level used when checking functionality within WLM product |
| 0 | (0) | X'1F4' | 0 | SVNPA_MAX_NOTEPAD_ENTRIES | "500" Maximum number of notepad entries allowed per service definition |
| 0 | (0) | X'50' | 0 | SVNPADAT_LEN | **SVNPADAT" |

IWMSVNPA Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|-------------------|------------|-----------|---------------------------|------------|-----------|
| SVNPA_CURRENT_VER | 0 | D | SVNPA_LEVEL008 | 0 | 7 |
| SVNPA_ID | 0 | E5D5D7 | SVNPA_LEVEL009 | 0 | 8 |
| SVNPA_LEVEL001 | 0 | 1 | SVNPA_LEVEL010 | 0 | 9 |
| SVNPA_LEVEL002 | 0 | 2 | SVNPA_LEVEL011 | 0 | A |
| SVNPA_LEVEL003 | 0 | 3 | SVNPA_LEVEL012 | 0 | B |
| SVNPA_LEVEL004 | 0 | 4 | SVNPA_LEVEL013 | 0 | C |
| SVNPA_LEVEL005 | 0 | 5 | SVNPA_MAX_NOTEPAD_ENTRIES | 0 | D |
| SVNPA_LEVEL006 | 0 | 6 | SVNPA_RESERVED_R08 | 0 | 1F4 |
| SVNPA_LEVEL007 | | | | | |

IWMSVNPA Cross Reference

| Name | Hex Offset | Hex Value |
|--------------------|---------------|--------------|
| | 0 | 9 |
| SVNPA_RESERVED_R09 | | |
| | 0 | A |
| SVNPA_RESERVED_R11 | | |
| | 0 | C |
| SVNPA_SP510 | 0 | 1 |
| SVNPA_SP520 | 0 | 2 |
| SVNPA_SP530 | 0 | 3 |
| SVNPA_SP604 | 0 | 4 |
| SVNPA_SP605 | 0 | 5 |
| SVNPA_SP606 | 0 | 6 |
| SVNPA_SP607 | 0 | 7 |
| SVNPA_SP608 | 0 | 8 |
| SVNPA_SP703 | 0 | B |
| SVNPA_SP705 | 0 | D |
| SVNPADAT | 0 | |
| SVNPADAT_LEN | 0 | 50 |
| SVNPADIL | 6 | |
| SVNPAHDR | 0 | |
| SVNPAHDR_LEN | 12 | 14 |
| SVNPALVL | 4 | |
| SVNPANAM | 0 | |
| SVNPANDN | 10 | |
| SVNPANDO | C | |
| SVNPANDS | 12 | |
| SVNPANPD | 0 | |
| SVNPASIZ | 8 | |
| SVNPAWVN | 5 | |

IWMSVPCD Programming Interface information

Programming Interface information

IWMSVPCD

End of Programming Interface information

IWMSVPCD Heading Information

Common Name: IWMWQRY Answer Area
Macro ID: IWMSVPCD
DSECT Name: SVPCDHD
Owning Component: Workload Manager (SCWLM)
Eye-Catcher ID: SVPC
 Offset: 0
 Length: CHAR(4)
Storage Attributes: Subpool: Any
 Key: 0
 Residency: Above 16M line
Size: Determined at run time
Created by: Caller
Pointed to by: R1 and AR1
Serialization: None
Function: Contains service policy information

IWMSVPCD Map

| Offsets | | | | | |
|---------|------|------------|-----|---------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | SVPCD_MAP | |
| 0 | (0) | CHARACTER | 4 | SVPCDNAM | IWMSVPCD.13: eyecatcher - SVCD |
| 4 | (4) | CHARACTER | 3 | SVPCDRS1 | IWMSVPCD.590: reserved |
| 7 | (7) | SIGNED | 1 | SVPCDDVN | IWMSVPCD.19: version |
| 8 | (8) | SIGNED | 2 | SVPCDDIL | IWMSVPCD.25: length of header section |
| 10 | (A) | CHARACTER | 2 | SVPCDRS2 | IWMSVPCD.596: reserved |
| 12 | (C) | SIGNED | 4 | SVPCDDLE | IWMSVPCD.31: length of SVPCD |
| 16 | (10) | SIGNED | 4 | SVPCDDCO | IWMSVPCD.37: service class section offset |
| 20 | (14) | SIGNED | 2 | SVPCDDCL | IWMSVPCD.43: length of the service class entry |
| 22 | (16) | SIGNED | 2 | SVPCDDPL | IWMSVPCD.61: length of each period entry |
| 22 | (16) | X'18' | 0 | SVPCD_MAP_LEN | |

**-SVPCD_MAP"

IWMSVPCD Cross Reference

| Name | Hex Offset | Hex Value |
|---------------|------------|-----------|
| SVPCD_MAP | 0 | |
| SVPCD_MAP_LEN | 16 | 18 |
| SVPCDDCL | 14 | |
| SVPCDDCO | 10 | |
| SVPCDDIL | 8 | |
| SVPCDDLE | C | |
| SVPCDDPL | 16 | |
| SVPCDDVN | 7 | |
| SVPCDNAM | 0 | |
| SVPCDRS1 | 4 | |
| SVPCDRS2 | A | |

IWMSVPOL Programming Interface information

Programming Interface information

IWMSVPOL

End of Programming Interface information

IWMSVPOL Heading Information

Common Name: IWMPQRY Answer Area
Macro ID: IWMSVPOL
DSECT Name: SVPOLHD SVPOLSP SVPOLWD SVPOLCD SVPOLPD SVPOLRG SVPOLRD
Owning Component: Workload Manager (SCWLM)
Eye-Catcher ID: SVPO
 Offset: 0
 Length: CHAR(4)
Storage Attributes: Subpool: Any
 Key: 0
 Residency: Above 16M line
Size: Determined at run time
Created by: IWMPQRY service
Pointed to by: IWMPQRY parameter list
Serialization: None
Function: Contains service policy information
 All timestamps are local time expressed in @PQC0795
 STCK format. @PQC0795

IWMSVPOL Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | SVPOLHD | IWMPQRY Answer area |
| 0 | (0) | CHARACTER | 4 | SVPOLNAM | Eyecatcher - SVPO |
| 4 | (4) | SIGNED | 1 | SVPOLLVL | Functionality level of the SVPOL. The functionality level defines the highest level of the WLM function that exists in the SVPOL. |
| 5 | (5) | SIGNED | 1 | SVPOLWVN | WLM version number |
| 6 | (6) | SIGNED | 2 | SVPOLDIL | Length of header section |
| 8 | (8) | SIGNED | 4 | SVPOLDLE | Total length of the active service policy data structure |
| 12 | (C) | SIGNED | 4 | SVPOLDPO | Offset to the service policy definition section |
| 16 | (10) | SIGNED | 2 | SVPOLDPL | Length of the policy entry in the policy section |
| 18 | (12) | SIGNED | 2 | SVPOLRS2 | Reserved |
| 20 | (14) | SIGNED | 4 | SVPOLDWO | Offset to the workload definition section |
| 24 | (18) | SIGNED | 2 | SVPOLDWC | Number of workload entries in the workload definition section |
| 26 | (1A) | SIGNED | 2 | SVPOLDWL | Length of each workload entry |
| 28 | (1C) | SIGNED | 4 | SVPOLDCO | Offset to the service class definition section |
| 32 | (20) | SIGNED | 2 | SVPOLDCC | Number of service class entries in the service class definition section |
| 34 | (22) | SIGNED | 2 | SVPOLDCL | Length of each service class definition entry |
| 36 | (24) | SIGNED | 4 | SVPOLDZO | Offset of service class period entries |
| 40 | (28) | SIGNED | 2 | SVPOLDZC | Number of service class periods |
| 42 | (2A) | SIGNED | 2 | SVPOLDZL | Length of each service class period entry |
| 44 | (2C) | SIGNED | 4 | SVPOLDRO | Offset to the report class definition section |
| 48 | (30) | SIGNED | 2 | SVPOLDRC | Number of report class entries in the report class definition section |
| 50 | (32) | SIGNED | 2 | SVPOLDRL | Length of each report class definition entry |
| 52 | (34) | SIGNED | 4 | SVPOLDGO | Offset to the resource group definition section |
| 56 | (38) | SIGNED | 2 | SVPOLDGC | Number of resource group entries in the resource group definition |
| 58 | (3A) | SIGNED | 2 | SVPOLDGL | Length of each resource group definition entry |
| 60 | (3C) | BITSTRING | 1 | SVPOLFL1 | boolean byte flag |
| | | 1... | | SVPOLSH2 | "X'80" Indicate whether SYSH contain rule, service class or report class |
| 61 | (3D) | BITSTRING | 3 | SVPOLRS3 | Reserved |
| 61 | (3D) | X'40' | 0 | SVPOLHD_LEN | "*-SVPOLHD" |

| Offsets | | | | | |
|---------|------|------------|-----|-------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | SVPOLSP | Service policy section |
| 0 | (0) | CHARACTER | 8 | SVPOLNSP | Service policy name |
| 8 | (8) | CHARACTER | 32 | SVPOLDSP | Service policy description |
| 40 | (28) | CHARACTER | 8 | SVPOLTPA | Time/date (STCK format) of policy activation |
| 48 | (30) | CHARACTER | 8 | SVPOLIPU | Userid of the system operator or service administrator who activated the service policy |
| 56 | (38) | CHARACTER | 8 | SVPOLSNA | Name of the system on which policy activation was initiated |
| 64 | (40) | SIGNED | 4 | SVPOLSEQ | Classification sequence number Removed svpolsqn added in OW43718. |
| 68 | (44) | SIGNED | 4 | SVPOLASN | Activation sequence number |
| 72 | (48) | CHARACTER | 32 | SVPOLSVD | SVDEF ID information (next 4 fields) of service definition from which this policy was extracted |
| 72 | (48) | CHARACTER | 8 | SVPOLIDN | Name of the service definition from which the service policy was extracted |
| 80 | (50) | CHARACTER | 8 | SVPOLTDI | Time/date (STCK format) that the service definition was installed |
| 88 | (58) | CHARACTER | 8 | SVPOLIDU | Userid of the service administrator who installed the service definition |
| 96 | (60) | CHARACTER | 8 | SVPOLIDS | Name of the system on which the service definition was installed |
| 104 | (68) | CHARACTER | 32 | SVPOLIDD | Description of service definition from which the service policy was extracted |
| 136 | (88) | SIGNED | 4 | SVPOLCPU | CPU service coefficient *10000 - the number by which accumulated CPU service units will be multiplied (weighted) |
| 140 | (8C) | SIGNED | 4 | SVPOLIOC | I/O service coefficient * 10000 - the number by which accumulated I/O service units will be multiplied (weighted) |
| 144 | (90) | SIGNED | 4 | SVPOLMSO | Storage service coefficient (MSO) * 10000 - the number by which accumulated storage service units will be multiplied (weighted) |
| 148 | (94) | SIGNED | 4 | SVPOLSRB | SRB service coefficient * 10000 - the number by which accumulated SRB service units will be multiplied (weighted) |
| 152 | (98) | CHARACTER | 4 | SVPOLECP | EBCDIC representation of CPU service coefficient |
| 156 | (9C) | CHARACTER | 4 | SVPOLEIO | EBCDIC representation of I/O service coefficient |
| 160 | (A0) | CHARACTER | 8 | SVPOLEMS | EBCDIC representation of Storage service coefficient |
| 168 | (A8) | CHARACTER | 4 | SVPOLESR | EBCDIC representation of SRB service coefficient |
| 172 | (AC) | BITSTRING | 1 | SVPOLFL2 | SVDEFFL2 |
| | | 1... | | SVPOLIOM | "X'80" When set indicates that we should include the I/O delays in the execution velocity |
| | | .1... | | SVPOLDAM | "X'40" When set indicates dynamic alias tuning available |
| 173 | (AD) | CHARACTER | 3 | SVPOLRS5 | Reserved |
| 173 | (AD) | X'B0' | 0 | SVPOLSP_LEN | ** -SVPOLSP" |

| Offsets | | | | | |
|---------|-----|------------|-----|-------------|-----------------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | SVPOLWD | Workload definition section |
| 0 | (0) | CHARACTER | 8 | SVPOLWNM | Workload name |
| 8 | (8) | CHARACTER | 32 | SVPOLWDE | Workload description |
| 8 | (8) | X'28' | 0 | SVPOLWD_LEN | ** -SVPOLWD" |

| Offsets | | | | | |
|---------|------|------------|-----|------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | SVPOLCD | Service class definition section |
| 0 | (0) | CHARACTER | 8 | SVPOLCNM | Service class name |
| 8 | (8) | CHARACTER | 32 | SVPOLCDE | Service class description |
| 40 | (28) | CHARACTER | 8 | SVPOLCWN | Name of the workload this service class is associated with |
| 48 | (30) | CHARACTER | 8 | SVPOLCRN | Name of the resource group this service class is associated with - blanks if no resource group association |
| 56 | (38) | SIGNED | 4 | SVPOLCPO | Offset of service class period entries for this service class |
| 60 | (3C) | SIGNED | 2 | SVPOLCPN | Number of service class periods for this service class |
| 62 | (3E) | BITSTRING | 2 | SVPOLCFL | Class flags |
| | | 1... | | SVPOLCDH | "X'80" Indicate class histories should be discarded |
| | | .1... | | SVPOLCPC | "X'40" Indicator for CPU critical |

IWMSVPOL Map

| Offsets | | | | | |
|---------|------|------------|-----|-------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| | | ..1. | | SVPOLSTR | "X'20'" Indicator for Storage Protection |
| | | ...1 | | SVPOLTRA | "X'10'" Indicator for whether this service class is used in any transaction subsystem type |
| | | 1... | | SVPOLADR | "X'08'" Indicator for whether this service class is used in any address space subsystem type |
| | |1.. | | SVPOLENC | "X'04'" Indicator for whether this service class is used in any enclave subsystem type |
| | |1. | | SVPOLSYH | "X'02'" Indicator for whether this service class is used in non-MVS logical partitions ie. SYSH |
| 64 | (40) | SIGNED | 4 | SVPOLCGI | Resource group index - the index of the resource group entry in SVPOL of the resource group to which this service class belongs |
| 68 | (44) | SIGNED | 4 | SVPOLCWI | Workload index - the index of the workload entry in SVPOL of the workload to which this service class belongs |
| 68 | (44) | X'48' | 0 | SVPOLCD_LEN | **-SVPOLCD" |

| Offsets | | | | | |
|---------|------|------------|-----|-------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | SVPOLPD | Service class period definition information |
| 0 | (0) | BITSTRING | 4 | SVPOLTYP | Goal type indicators - mutually exclusive |
| | | 1... | | SVPOLPRC | "X'80'" Percentile response time goal |
| | | .1.. | | SVPOLAVG | "X'40'" Average response time goal |
| | | ..1. | | SVPOLVEL | "X'20'" Velocity goal |
| | | ...1 | | SVPOLDSC | "X'10'" Discretionary goal |
| | | 1... | | SVPOLSTM | "X'08'" System goal |
| 4 | (4) | SIGNED | 1 | SVPOLRS7 | Reserved |
| 5 | (5) | SIGNED | 1 | SVPOLRTU | Response time unit indicator indicating the units in which SVPOLVAL is expressed. See constants SVPOLRT* for values |
| 6 | (6) | SIGNED | 2 | SVPOLPER | Goal percentile value |
| 8 | (8) | SIGNED | 2 | SVPOLIMP | Importance level ranging from 1 to 5 where 1 is most important |
| 10 | (A) | SIGNED | 2 | SVPOLRS8 | Reserved |
| 12 | (C) | SIGNED | 4 | SVPOLVAL | Response time goal or velocity goal. Zero if discretionary or system goal or no goal defined. |
| 16 | (10) | SIGNED | 4 | SVPOLDUR | Service class period duration in service units, or zero for last period |
| 16 | (10) | X'14' | 0 | SVPOLPD_LEN | **-SVPOLPD" |

| Offsets | | | | | |
|---------|------|------------|-----|-------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | SVPOLRG | Resource group definition section |
| 0 | (0) | CHARACTER | 8 | SVPOLGNM | Resource group name |
| 8 | (8) | CHARACTER | 32 | SVPOLGDE | Resource group description |
| 40 | (28) | SIGNED | 4 | SVPOLGMN | If SVPOLMNS = 1, this field contains the minimum capacity in unweighted CPU service units per second, otherwise this field is 0 |
| 44 | (2C) | SIGNED | 4 | SVPOLGMX | If SVPOLMXS = 1, this field contains the maximum capacity in unweighted CPU service units per second, otherwise this field is 0 |
| 48 | (30) | BITSTRING | 4 | SVPOLGLT | Indicators |
| | | 1... | | SVPOLMXS | "X'80'" Maximum capacity was specified |
| | | .1.. | | SVPOLMNS | "X'40'" Minimum capacity was specified |
| | | ..1. | | SVPOLGSD | "X'20'" |
| 52 | (34) | X'34' | 0 | SVPOLRG_LEN | **-SVPOLRG" |

| Offsets | | | | | |
|---------|-----|------------|-----|------------|---------------------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | SVPOLRD | report class definition section |
| 0 | (0) | CHARACTER | 8 | SVPOLRNM | report class name |
| 8 | (8) | CHARACTER | 32 | SVPOLRDE | report class description |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|----------------|-----|------------|-----|--------------------|---|
| Dec | Hex | | | | |
| Comment | | | | | |
| Constants | | | | | |
| End of Comment | | | | | |
| 8 | (8) | X'1' | 0 | SVPOL_RTU_MS | "1" SVPOLRTU value indicating that SVPOLVAL value is expressed in milliseconds |
| 8 | (8) | X'2' | 0 | SVPOL_RTU_SECOND | "2" SVPOLRTU value indicating that SVPOLVAL value is expressed in seconds |
| 8 | (8) | X'3' | 0 | SVPOL_RTU_MINUTE | "3" SVPOLRTU value indicating that SVPOLVAL value is expressed in minutes |
| 8 | (8) | X'4' | 0 | SVPOL_RTU_HOUR | "4" SVPOLRTU value indicating that SVPOLVAL value is expressed in hours |
| 8 | (8) | X'E5D7D6' | 0 | SVPOL_NAME | "C'SVPO" 'SVPO' acronym |
| 8 | (8) | X'1' | 0 | SVPOL_LEVEL001 | "1" Functionality level introduced by WLM in SP510. |
| 8 | (8) | X'1' | 0 | SVPOL_VER510 | "1" WLM SP510 version |
| 8 | (8) | X'2' | 0 | SVPOL_LEVEL002 | "2" Functionality level introduced by WLM in SP520. |
| 8 | (8) | X'2' | 0 | SVPOL_VER520 | "2" WLM SP520 version |
| 8 | (8) | X'3' | 0 | SVPOL_LEVEL003 | "3" Functionality level introduced by WLM in OS/390 V1R3 |
| 8 | (8) | X'3' | 0 | SVPOL_VER530 | "3" WLM version number for OS/390 V1R3 |
| 8 | (8) | X'4' | 0 | SVPOL_LEVEL004 | "4" Functionality level introduced by WLM in OS/390 V2R4 |
| 8 | (8) | X'4' | 0 | SVPOL_VER604 | "4" WLM version number for OS/390 V2R4 |
| 8 | (8) | X'5' | 0 | SVPOL_LEVEL005 | "5" Functionality level introduced by WLM in OS/390 V2R5 |
| 8 | (8) | X'5' | 0 | SVPOL_VER605 | "5" WLM version number for OS/390 V2R5 |
| 8 | (8) | X'6' | 0 | SVPOL_LEVEL006 | "6" Functionality level introduced by WLM in OS/390 V2R6 |
| 8 | (8) | X'6' | 0 | SVPOL_VER606 | "6" WLM version number for OS/390 V2R6 |
| 8 | (8) | X'7' | 0 | SVPOL_LEVEL007 | "7" Functionality level introduced by WLM in OS/390 V2R7 |
| 8 | (8) | X'7' | 0 | SVPOL_VER607 | "7" WLM version number for OS/390 V2R7 |
| 8 | (8) | X'8' | 0 | SVPOL_LEVEL008 | "8" Functionality level introduced by WLM in OS/390 V2R7 |
| 8 | (8) | X'8' | 0 | SVPOL_VER608 | "8" WLM version number for OS/390 V2R7 |
| 8 | (8) | X'9' | 0 | SVPOL_LEVEL009 | "9" Functionality level reserved for WLM in OS/390 V2R8 |
| 8 | (8) | X'9' | 0 | SVPOL_RESERVED_R08 | "9" WLM version number reserve for WLM in OS/390 V2R8 |
| 8 | (8) | X'A' | 0 | SVPOL_LEVEL010 | "10" Functionality level reserved for WLM in OS/390 V2R9 |
| 8 | (8) | X'A' | 0 | SVPOL_RESERVED_R09 | "10" WLM version number reserved for WLM in OS/390 V2R9 |
| 8 | (8) | X'B' | 0 | SVPOL_LEVEL011 | "11" Functionality level introduced by WLM in OS/390 V2R10 |
| 8 | (8) | X'B' | 0 | SVPOL_VER703 | "11" WLM version number for OS/390 V2R10 |
| 8 | (8) | X'C' | 0 | SVPOL_LEVEL012 | "12" Functionality level reserved for WLM in OS/390 V2R11 |
| 8 | (8) | X'C' | 0 | SVPOL_RESERVED_R11 | "12" WLM version number reserved for WLM in OS/390 V2R11 |
| 8 | (8) | X'D' | 0 | SVPOL_LEVEL013 | "13" Functionality level introduced by WLM in OS/390 V2R12 |
| 8 | (8) | X'D' | 0 | SVPOL_VER705 | "13" WLM version number for OS/390 V2R12 |
| 8 | (8) | X'D' | 0 | SVPOL_CURRENT_VER | "13" Current functionality level used checking functionality within WLM product |
| 8 | (8) | X'28' | 0 | SVPOLRD_LEN | "*-SVPOLRD" |

IWMSVPOL Cross Reference

IWMSVPOL Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|--------------------|------------|-----------|-------------|------------|-----------|
| SVPOL_CURRENT_VER | 8 | D | SVPOLCPN | 3C | |
| SVPOL_LEVEL001 | 8 | 1 | SVPOLCPO | 38 | |
| SVPOL_LEVEL002 | 8 | 2 | SVPOLCPU | 88 | |
| SVPOL_LEVEL003 | 8 | 3 | SVPOLCRN | 30 | |
| SVPOL_LEVEL004 | 8 | 4 | SVPOLCWI | 44 | |
| SVPOL_LEVEL005 | 8 | 5 | SVPOLCWN | 28 | |
| SVPOL_LEVEL006 | 8 | 6 | SVPOLDAM | AC | 40 |
| SVPOL_LEVEL007 | 8 | 7 | SVPOLDCC | 20 | |
| SVPOL_LEVEL008 | 8 | 8 | SVPOLDCL | 22 | |
| SVPOL_LEVEL009 | 8 | 9 | SVPOLDCO | 1C | |
| SVPOL_LEVEL010 | 8 | A | SVPOLDGC | 38 | |
| SVPOL_LEVEL011 | 8 | B | SVPOLDGL | 3A | |
| SVPOL_LEVEL012 | 8 | C | SVPOLDGO | 34 | |
| SVPOL_LEVEL013 | 8 | D | SVPOLDIL | 6 | |
| SVPOL_NAME | 8 | E5D7D6 | SVPOLDLE | 8 | |
| SVPOL_RESERVED_R08 | 8 | 9 | SVPOLDPL | 10 | |
| SVPOL_RESERVED_R09 | 8 | A | SVPOLDPO | C | |
| SVPOL_RESERVED_R11 | 8 | C | SVPOLDRD | 30 | |
| SVPOL_RTU_HOUR | 8 | 4 | SVPOLDRL | 32 | |
| SVPOL_RTU_MINUTE | 8 | 3 | SVPOLDRO | 2C | |
| SVPOL_RTU_MS | 8 | 1 | SVPOLDSC | 0 | 10 |
| SVPOL_RTU_SECOND | 8 | 2 | SVPOLDSP | 8 | |
| SVPOL_VER510 | 8 | 1 | SVPOLDUR | 10 | |
| SVPOL_VER520 | 8 | 2 | SVPOLDWC | 18 | |
| SVPOL_VER530 | 8 | 3 | SVPOLDWL | 1A | |
| SVPOL_VER604 | 8 | 4 | SVPOLDWO | 14 | |
| SVPOL_VER605 | 8 | 5 | SVPOLDZC | 28 | |
| SVPOL_VER606 | 8 | 6 | SVPOLDZL | 2A | |
| SVPOL_VER607 | 8 | 7 | SVPOLDZO | 24 | |
| SVPOL_VER608 | 8 | 8 | SVPOLECP | 98 | |
| SVPOL_VER703 | 8 | B | SVPOLEIO | 9C | |
| SVPOL_VER705 | 8 | D | SVPOLEMS | A0 | |
| SVPOLADR | 3E | 8 | SVPOLENC | 3E | 4 |
| SVPOLASN | 44 | | SVPOLESR | A8 | |
| SVPOLAVG | 0 | 40 | SVPOLFL1 | 3C | |
| SVPOLCD | 0 | | SVPOLFL2 | AC | |
| SVPOLCD_LEN | 44 | 48 | SVPOLGDE | 8 | |
| SVPOLCDE | 8 | | SVPOLGLT | 30 | |
| SVPOLCDH | 3E | 80 | SVPOLGMN | 28 | |
| SVPOLCFL | 3E | | SVPOLGMX | 2C | |
| SVPOLCGI | 40 | | SVPOLGNM | 0 | |
| SVPOLCNM | 0 | | SVPOLGSD | 30 | 20 |
| SVPOLCPC | 3E | 40 | SVPOLHD | 0 | |
| | | | SVPOLHD_LEN | 3D | 40 |
| | | | SVPOLIDD | 68 | |
| | | | SVPOLIDN | 48 | |
| | | | SVPOLIDS | 60 | |
| | | | SVPOLIDU | 58 | |
| | | | SVPOLIMP | 8 | |
| | | | SVPOLIOC | 8C | |
| | | | SVPOLIOM | AC | 80 |
| | | | SVPOLIPU | 30 | |
| | | | SVPOLLV | 4 | |
| | | | SVPOLMNS | 30 | 40 |
| | | | SVPOLMSO | 90 | |
| | | | SVPOLMXS | 30 | 80 |
| | | | SVPOLNAM | 0 | |
| | | | SVPOLNSP | 0 | |
| | | | SVPOLPD | 0 | |
| | | | SVPOLPD_LEN | 10 | 14 |
| | | | SVPOLPER | 6 | |
| | | | SVPOLPRC | 0 | 80 |
| | | | SVPOLRD | 0 | |

| Name | Hex Offset | Hex Value |
|-------------|---------------|--------------|
| SVPOLRD_LEN | 8 | 28 |
| SVPOLRDE | 8 | |
| SVPOLRG | 0 | |
| SVPOLRG_LEN | 34 | 34 |
| SVPOLRNM | 0 | |
| SVPOLRS2 | 12 | |
| SVPOLRS3 | 3D | |
| SVPOLRS5 | AD | |
| SVPOLRS7 | 4 | |
| SVPOLRS8 | A | |
| SVPOLRTU | 5 | |
| SVPOLSEQ | 40 | |
| SVPOLSH2 | 3C | 80 |
| SVPOLSNA | 38 | |
| SVPOLSP | 0 | |
| SVPOLSP_LEN | AD | B0 |
| SVPOLSRB | 94 | |
| SVPOLSTM | 0 | 8 |
| SVPOLSTR | 3E | 20 |
| SVPOLSVD | 48 | |
| SVPOLSYH | 3E | 2 |
| SVPOLTDI | 50 | |
| SVPOLTPA | 28 | |
| SVPOLTRA | 3E | 10 |
| SVPOLTYP | 0 | |
| SVPOLVAL | C | |
| SVPOLVEL | 0 | 20 |
| SVPOLWD | 0 | |
| SVPOLWD_LEN | 8 | 28 |
| SVPOLWDE | 8 | |
| SVPOLWNM | 0 | |
| SVPOLWVN | 5 | |

IWMSVPSE Programming Interface information

Programming Interface information

IWMSVPSE

End of Programming Interface information

IWMSVPSE Heading Information

Common Name: WLM Service Policy Scheduling Environment mapping
Macro ID: IWMSVPSE
DSECT Name: SVPSEHDR - SVPSE header SVPSESE - scheduling environments SVPSESR - scheduling environments/resources SVPSERE - resources
Owning Component: Workload Manager (SCWLM)
Eye-Catcher ID: SVPA
Offset: 0
Length: CHAR(4)
Storage Attributes: Subpool: Any
Key: 0
Residency: Above 16M line
Size: Determined at run time
Created by: Caller
Pointed to by: R1 and AR1
Serialization: None
Function: Contains service policy scheduling environments information.
Also used to map SMF 90 subtype 32 record.

IWMSVPSE Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|---------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | SVPSEHDR | |
| 0 | (0) | CHARACTER | 4 | SVPSE_EYECATCHER | |
| 4 | (4) | SIGNED | 1 | SVPSE_FUNCTIONALITY_LEVEL | IWMSVPSE.16: Eye catcher for SVPSE - SVPS |
| 5 | (5) | SIGNED | 1 | SVPSE_WLM_VERSION_NUMBER | IWMSVPSE.22: Functionality level of the SVPSE. The functionality level defines the highest level of WLM function that exists in the SVPSE |
| 6 | (6) | SIGNED | 2 | SVPSE_SIZE_OF_HEADER | IWMSVPSE.28: WLM version number |
| 8 | (8) | SIGNED | 4 | SVPSE_SIZE_OF_WHOLE_SVPSE | IWMSVPSE.34: Size of header section |
| 12 | (C) | SIGNED | 4 | SVPSE_SVPSESEQ | IWMSVPSE.40: Size of the whole scheduling environment section |
| 16 | (10) | CHARACTER | 56 | SVPSE_OFFSETS_AREA | IWMSVPSE.930: Policy activation sequence number - gets bumped for every policy activation when scheduling environment data changes |
| 16 | (10) | SIGNED | 4 | SVPSE_OFFSET_SE | IWMSVPSE.53: SVPSE section offsets area |
| 20 | (14) | SIGNED | 2 | SVPSE_NUMBER_SE | IWMSVPSE.57: Offset of scheduling environment section |
| 22 | (16) | SIGNED | 2 | SVPSE_SIZE_SE | IWMSVPSE.63: Number of scheduling environments |
| 24 | (18) | SIGNED | 4 | SVPSE_OFFSET_SR | IWMSVPSE.69: Size of an scheduling environment entry |
| 28 | (1C) | SIGNED | 2 | SVPSE_NUMBER_SR | IWMSVPSE.76: Offset of scheduling environment- /resource section |
| 30 | (1E) | SIGNED | 2 | SVPSE_SIZE_SR | IWMSVPSE.82: Number of scheduling environment- /resource section |
| 32 | (20) | SIGNED | 4 | SVPSE_OFFSET_RE | IWMSVPSE.88: Size of an scheduling environment- /resource section |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------------------|--|
| Dec | Hex | | | | |
| 36 | (24) | SIGNED | 2 | SVPSE_NUMBER_RE | IWMSVPSE.95: Offset of resource section IWMSVPSE.101: Number of resources |
| 38 | (26) | SIGNED | 2 | SVPSE_SIZE_RE | IWMSVPSE.107: Size of an resource entry |
| 40 | (28) | SIGNED | 4 | SVPSE_OFFSET_RESERVED1 | IWMSVPSE.114: Reserved offset |
| 44 | (2C) | SIGNED | 2 | SVPSE_NUMBER_RESERVED1 | IWMSVPSE.120: Reserved number |
| 46 | (2E) | SIGNED | 2 | SVPSE_SIZE_RESERVED1 | IWMSVPSE.126: Reserved size |
| 48 | (30) | SIGNED | 4 | SVPSE_OFFSET_RESERVED2 | IWMSVPSE.133: Reserved offset |
| 52 | (34) | SIGNED | 2 | SVPSE_NUMBER_RESERVED2 | IWMSVPSE.139: Reserved number |
| 54 | (36) | SIGNED | 2 | SVPSE_SIZE_RESERVED2 | IWMSVPSE.145: Reserved size |
| 56 | (38) | SIGNED | 4 | SVPSE_OFFSET_RESERVED3 | IWMSVPSE.152: Reserved offset |
| 60 | (3C) | SIGNED | 2 | SVPSE_NUMBER_RESERVED3 | IWMSVPSE.158: Reserved number |
| 62 | (3E) | SIGNED | 2 | SVPSE_SIZE_RESERVED3 | IWMSVPSE.164: Reserved size |
| 64 | (40) | SIGNED | 4 | SVPSE_OFFSET_RESERVED4 | IWMSVPSE.171: Reserved offset |
| 68 | (44) | SIGNED | 2 | SVPSE_NUMBER_RESERVED4 | IWMSVPSE.177: Reserved number |
| 70 | (46) | SIGNED | 2 | SVPSE_SIZE_RESERVED4 | IWMSVPSE.183: Reserved size |
| 72 | (48) | CHARACTER | 48 | SVPSE_EXT_OFFSETS_AREA | IWMSVPSE.190: SVPSE extension offsets area |
| 72 | (48) | SIGNED | 4 | SVPSE_EXT_DATA_OFF | IWMSVPSE.193: Offset of extended data (0 if no extended data exists) |
| 76 | (4C) | SIGNED | 4 | SVPSE_EXT_DATA_LEN | IWMSVPSE.199: Length of extended data |
| 80 | (50) | SIGNED | 4 | SVPSE_EXT_OFF_SE | IWMSVPSE.205: Offset of scheduling environments extension section if number of scheduling environments extensions is nonzero (otherwise this field is ignored) |
| 84 | (54) | SIGNED | 2 | SVPSE_EXT_NUM_SE | IWMSVPSE.211: Number of scheduling environments extension entries |
| 86 | (56) | SIGNED | 2 | SVPSE_EXT_SIZ_SE | IWMSVPSE.217: Size of each scheduling environments extension entry |
| 88 | (58) | SIGNED | 4 | SVPSE_EXT_OFF_RSV1 | IWMSVPSE.223: Offset reserved |
| 92 | (5C) | SIGNED | 2 | SVPSE_EXT_NUM_RSV1 | IWMSVPSE.229: Number reserved |
| 94 | (5E) | SIGNED | 2 | SVPSE_EXT_SIZ_RSV1 | IWMSVPSE.235: Size reserved |
| 96 | (60) | SIGNED | 4 | SVPSE_EXT_OFF_RSV2 | IWMSVPSE.241: Offset reserved |
| 100 | (64) | SIGNED | 2 | SVPSE_EXT_NUM_RSV2 | IWMSVPSE.247: Number reserved |
| 102 | (66) | SIGNED | 2 | SVPSE_EXT_SIZ_RSV2 | IWMSVPSE.253: Size reserved |
| 104 | (68) | SIGNED | 4 | SVPSE_EXT_OFF_RSV3 | IWMSVPSE.259: Offset reserved |
| 108 | (6C) | SIGNED | 2 | SVPSE_EXT_NUM_RSV3 | IWMSVPSE.265: Number reserved |
| 110 | (6E) | SIGNED | 2 | SVPSE_EXT_SIZ_RSV3 | IWMSVPSE.271: Size reserved |

IWMSVPSE Map

| Offsets | | | | | |
|---------|------|------------|-----|--------------------|-------------------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 112 | (70) | SIGNED | 4 | SVPSE_EXT_OFF_RSV4 | IWMSVPSE.277: Offset reserved |
| 116 | (74) | SIGNED | 2 | SVPSE_EXT_NUM_RSV4 | IWMSVPSE.283: Number reserved |
| 118 | (76) | SIGNED | 2 | SVPSE_EXT_SIZ_RSV4 | IWMSVPSE.289: Size reserved |
| 120 | (78) | SIGNED | 4 | SVPSE_RESERVED | IWMSVPSE.295: Reserved |
| 160 | (A0) | X'A0' | 0 | SVPSEHDR_LEN | **SVPSEHDR" |

| Offsets | | | | | |
|---------|------|------------|-----|----------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | SVPSESE | |
| 0 | (0) | CHARACTER | 16 | SVPSE_SE_SCHENV_NAME | IWMSVPSE.315: Scheduling environment name |
| 16 | (10) | CHARACTER | 32 | SVPSE_SE_DESCRIPTION | IWMSVPSE.321: Scheduling environment description |
| 48 | (30) | CHARACTER | 8 | SVPSE_SE_RESERVED | IWMSVPSE.327: Reserved |
| 88 | (58) | X'58' | 0 | SVPSESE_LEN | **SVPSESE" |

| Offsets | | | | | |
|---------|------|------------|-----|-------------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | SVPSESR | |
| 0 | (0) | CHARACTER | 16 | SVPSE_SR_SCHENV_NAME | IWMSVPSE.347: Scheduling environment name |
| 16 | (10) | CHARACTER | 16 | SVPSE_SR_RESOURCE_NAME | IWMSVPSE.353: Resource name |
| 32 | (20) | SIGNED | 1 | SVPSE_SR_RESOURCE_STATE | IWMSVPSE.359: Required resource state |
| 33 | (21) | CHARACTER | 1 | SVPSE_SR_RESERVED1 | IWMSVPSE.383: Reserved |
| 36 | (24) | CHARACTER | 8 | SVPSE_SR_RESERVED2 | IWMSVPSE.392: Reserved |
| 76 | (4C) | X'4C' | 0 | SVPSESR_LEN | **SVPSESR" |

| Offsets | | | | | |
|---------|------|------------|-----|------------------------|------------------------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | SVPSERE | |
| 0 | (0) | CHARACTER | 16 | SVPSE_RE_RESOURCE_NAME | IWMSVPSE.412: Resource name |
| 16 | (10) | CHARACTER | 32 | SVPSE_RE_DESCRIPTION | IWMSVPSE.418: Resource description |
| 48 | (30) | CHARACTER | 8 | SVPSE_RE_RESERVED | IWMSVPSE.424: Reserved |

| | | | | | |
|--------------------------------|------|-----------|---|----------|----------|
| Comment | | | | | |
| IWMSVPSE.566: SVPSE identifier | | | | | |
| End of Comment | | | | | |
| 48 | (30) | X'E5D7E2' | 0 | SVPSE_ID | "C'SVPS" |

| Offsets | | | | | |
|---|------|------------|-----|----------------|-------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| Comment | | | | | |
| IWMSVPSE.575: Functionality level introduced by WLM in SP510. This is set by JBB6604 when no scheduling environments were defined. | | | | | |
| End of Comment | | | | | |
| 48 | (30) | X'1' | 0 | SVPSE_LEVEL001 | "1" |
| Comment | | | | | |
| IWMSVPSE.584: Functionality level introduced by WLM in OS/390 R4 | | | | | |
| End of Comment | | | | | |
| 48 | (30) | X'4' | 0 | SVPSE_LEVEL004 | "4" |
| Comment | | | | | |
| IWMSVPSE.593: WLM version number for OS/390 R4 | | | | | |
| End of Comment | | | | | |
| 48 | (30) | X'4' | 0 | SVPSE_VER604 | "4" |
| Comment | | | | | |
| IWMSVPSE.1111: Functionality level introduced by WLM in OS/390 R5 | | | | | |
| End of Comment | | | | | |
| 48 | (30) | X'5' | 0 | SVPSE_LEVEL005 | "5" |
| Comment | | | | | |
| IWMSVPSE.1120: WLM version number for OS/390 R5 | | | | | |
| End of Comment | | | | | |
| 48 | (30) | X'5' | 0 | SVPSE_VER605 | "5" |
| Comment | | | | | |
| IWMSVPSE.1129: Functionality level introduced by WLM in OS/390 R6 | | | | | |
| End of Comment | | | | | |
| 48 | (30) | X'6' | 0 | SVPSE_LEVEL006 | "6" |
| Comment | | | | | |
| IWMSVPSE.1138: WLM version number for OS/390 R6 | | | | | |
| End of Comment | | | | | |
| 48 | (30) | X'6' | 0 | SVPSE_VER606 | "6" |

IWMSVPSE Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---|------|------------|-----|--------------------|-------------|
| Dec | Hex | | | | |
| Comment | | | | | |
| IWMSVPSE.1147: Functionality level introduced by WLM in OS/390 R7 | | | | | |
| End of Comment | | | | | |
| 48 | (30) | X'7' | 0 | SVPSE_LEVEL007 | "7" |
| Comment | | | | | |
| IWMSVPSE.1156: WLM version number for OS/390 R7 | | | | | |
| End of Comment | | | | | |
| 48 | (30) | X'7' | 0 | SVPSE_VER607 | "7" |
| Comment | | | | | |
| IWMSVPSE.1158: Functionality level introduced by WLM in OS/390 R7 | | | | | |
| End of Comment | | | | | |
| 48 | (30) | X'8' | 0 | SVPSE_LEVEL008 | "8" |
| Comment | | | | | |
| IWMSVPSE.1167: WLM version number for OS/390 R7 | | | | | |
| End of Comment | | | | | |
| 48 | (30) | X'8' | 0 | SVPSE_VER608 | "8" |
| Comment | | | | | |
| IWMSVPSE.1213: Reserved functionality level | | | | | |
| End of Comment | | | | | |
| 48 | (30) | X'9' | 0 | SVPSE_LEVEL009 | "9" |
| Comment | | | | | |
| IWMSVPSE.1279: Reserved WLM version number for OS/390 V2R8 | | | | | |
| End of Comment | | | | | |
| 48 | (30) | X'9' | 0 | SVPSE_RESERVED_R08 | "9" |
| Comment | | | | | |
| IWMSVPSE.1196: Reserved functionality level | | | | | |
| End of Comment | | | | | |
| 48 | (30) | X'A' | 0 | SVPSE_LEVEL010 | "10" |
| Comment | | | | | |
| IWMSVPSE.1288: Reserved WLM version number for OS/390 V2R9 | | | | | |
| End of Comment | | | | | |
| 48 | (30) | X'A' | 0 | SVPSE_RESERVED_R09 | "10" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---|------|------------|-----|--------------------|-------------|
| Dec | Hex | | | | |
| Comment | | | | | |
| IWMSVPSE.1222: Functionality level introduced by WLM in OS/390 R10 | | | | | |
| End of Comment | | | | | |
| 48 | (30) | X'B' | 0 | SVPSE_LEVEL011 | "11" |
| Comment | | | | | |
| IWMSVPSE.1198: WLM version number for OS/390 R10 | | | | | |
| End of Comment | | | | | |
| 48 | (30) | X'B' | 0 | SVPSE_VER703 | "11" |
| Comment | | | | | |
| IWMSVPSE.1261: Reserved functionality level | | | | | |
| End of Comment | | | | | |
| 48 | (30) | X'C' | 0 | SVPSE_LEVEL012 | "12" |
| Comment | | | | | |
| IWMSVPSE.1297: Reserved WLM version number for OS/390 V2R11 | | | | | |
| End of Comment | | | | | |
| 48 | (30) | X'C' | 0 | SVPSE_RESERVED_R11 | "12" |
| Comment | | | | | |
| IWMSVPSE.1225: Functionality level introduced by WLM in OS/390 R12 | | | | | |
| End of Comment | | | | | |
| 48 | (30) | X'D' | 0 | SVPSE_LEVEL013 | "13" |
| Comment | | | | | |
| IWMSVPSE.1240: WLM version number for OS/390 R12 | | | | | |
| End of Comment | | | | | |
| 48 | (30) | X'D' | 0 | SVPSE_VER705 | "13" |
| Comment | | | | | |
| IWMSVPSE.602: Current version level used when checking functionality within WLM product | | | | | |
| End of Comment | | | | | |
| 48 | (30) | X'D' | 0 | SVPSE_CURRENT_VER | "13" |
| Comment | | | | | |
| IWMSVPSE.976: SVPSE_SR_RESOURCE_STATE that indicates resource is desired to be ON | | | | | |
| End of Comment | | | | | |

IWMSVPSE Map

| Offsets | | | | | |
|--|------|------------|-----|-------------------|--------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 48 | (30) | X'4' | 0 | SVPSE_SR_ON | "4" |
| Comment | | | | | |
| IWMSVPSE.982: SVPSE_SR_RESOURCE_STATE that indicates resource is desired to be OFF | | | | | |
| End of Comment | | | | | |
| 48 | (30) | X'8' | 0 | SVPSE_SR_OFF | "8" |
| Comment | | | | | |
| IWMSVPSE.1024: SVPSE_SR_RESOURCE_STATE that is reserved | | | | | |
| End of Comment | | | | | |
| 48 | (30) | X'C' | 0 | SVPSE_SR_RESERVED | "12" |
| Comment | | | | | |
| IWMSVPSE.625: SVPSE section symbolic constant | | | | | |
| End of Comment | | | | | |
| 48 | (30) | X'1' | 0 | SVPSE_SECTION | "1" |
| Comment | | | | | |
| IWMSVPSE.634: SVPSE header symbolic constant | | | | | |
| End of Comment | | | | | |
| 48 | (30) | X'2' | 0 | SVPSE_HDR_SECTION | "2" |
| Comment | | | | | |
| IWMSVPSE.643: SVPSE SE symbolic constant | | | | | |
| End of Comment | | | | | |
| 48 | (30) | X'3' | 0 | SVPSE_SE_SECTION | "3" |
| Comment | | | | | |
| IWMSVPSE.653: SVPSE SR symbolic constant | | | | | |
| End of Comment | | | | | |
| 48 | (30) | X'4' | 0 | SVPSE_SR_SECTION | "4" |
| Comment | | | | | |
| IWMSVPSE.663: SVPSE RE symbolic constant | | | | | |
| End of Comment | | | | | |
| 48 | (30) | X'5' | 0 | SVPSE_RE_SECTION | "5" |
| 88 | (58) | X'58' | 0 | SVPSE_RE_LEN | "*-SVPSE_RE" |

IWMSVPSE Cross Reference

| Name | Hex Offset | Hex Value |
|---------------------------|------------|-----------|
| SVPSE_CURRENT_VER | 30 | D |
| SVPSE_EXT_DATA_LEN | 4C | |
| SVPSE_EXT_DATA_OFF | 48 | |
| SVPSE_EXT_NUM_RSV1 | 5C | |
| SVPSE_EXT_NUM_RSV2 | 64 | |
| SVPSE_EXT_NUM_RSV3 | 6C | |
| SVPSE_EXT_NUM_RSV4 | 74 | |
| SVPSE_EXT_NUM_SE | 54 | |
| SVPSE_EXT_OFF_RSV1 | 58 | |
| SVPSE_EXT_OFF_RSV2 | 60 | |
| SVPSE_EXT_OFF_RSV3 | 68 | |
| SVPSE_EXT_OFF_RSV4 | 70 | |
| SVPSE_EXT_OFF_SE | 50 | |
| SVPSE_EXT_OFFSETS_AREA | 48 | |
| SVPSE_EXT_SIZ_RSV1 | 5E | |
| SVPSE_EXT_SIZ_RSV2 | 66 | |
| SVPSE_EXT_SIZ_RSV3 | 6E | |
| SVPSE_EXT_SIZ_RSV4 | 76 | |
| SVPSE_EXT_SIZ_SE | 56 | |
| SVPSE_EYECATCHER | 0 | |
| SVPSE_FUNCTIONALITY_LEVEL | 4 | |
| SVPSE_HDR_SECTION | 30 | 2 |
| SVPSE_ID | 30 | E5D7E2 |
| SVPSE_LEVEL001 | 30 | 1 |
| SVPSE_LEVEL004 | 30 | 4 |
| SVPSE_LEVEL005 | 30 | 5 |
| SVPSE_LEVEL006 | 30 | 6 |
| SVPSE_LEVEL007 | 30 | 7 |
| SVPSE_LEVEL008 | 30 | 8 |
| SVPSE_LEVEL009 | 30 | 9 |
| SVPSE_LEVEL010 | 30 | A |
| SVPSE_LEVEL011 | 30 | B |

| Name | Hex Offset | Hex Value |
|---------------------------|------------|-----------|
| SVPSE_LEVEL012 | 30 | C |
| SVPSE_LEVEL013 | 30 | D |
| SVPSE_NUMBER_RE | 24 | |
| SVPSE_NUMBER_RESERVED1 | 2C | |
| SVPSE_NUMBER_RESERVED2 | 34 | |
| SVPSE_NUMBER_RESERVED3 | 3C | |
| SVPSE_NUMBER_RESERVED4 | 44 | |
| SVPSE_NUMBER_SE | 14 | |
| SVPSE_NUMBER_SR | 1C | |
| SVPSE_OFFSET_RE | 20 | |
| SVPSE_OFFSET_RESERVED1 | 28 | |
| SVPSE_OFFSET_RESERVED2 | 30 | |
| SVPSE_OFFSET_RESERVED3 | 38 | |
| SVPSE_OFFSET_RESERVED4 | 40 | |
| SVPSE_OFFSET_SE | 10 | |
| SVPSE_OFFSET_SR | 18 | |
| SVPSE_OFFSETS_AREA | 10 | |
| SVPSE_RE_DESCRIPTION | 10 | |
| SVPSE_RE_RESERVED | 30 | |
| SVPSE_RE_RESOURCE_NAME | 0 | |
| SVPSE_RE_SECTION | 30 | 5 |
| SVPSE_RESERVED | 78 | |
| SVPSE_RESERVED_R08 | 30 | 9 |
| SVPSE_RESERVED_R09 | 30 | A |
| SVPSE_RESERVED_R11 | 30 | C |
| SVPSE_SE_DESCRIPTION | 10 | |
| SVPSE_SE_RESERVED | 30 | |
| SVPSE_SE_SCHENV_NAME | 0 | |
| SVPSE_SE_SECTION | 30 | 3 |
| SVPSE_SECTION | 30 | 1 |
| SVPSE_SIZE_OF_HEADER | 6 | |
| SVPSE_SIZE_OF_WHOLE_SVPSE | | |

IWMSVPSE Cross Reference

| Name | Hex Offset | Hex Value |
|--------------------------|---------------|--------------|
| | 8 | |
| SVPSE_SIZE_RE | | |
| | 26 | |
| SVPSE_SIZE_RESERVED1 | | |
| | 2E | |
| SVPSE_SIZE_RESERVED2 | | |
| | 36 | |
| SVPSE_SIZE_RESERVED3 | | |
| | 3E | |
| SVPSE_SIZE_RESERVED4 | | |
| | 46 | |
| SVPSE_SIZE_SE | | |
| | 16 | |
| SVPSE_SIZE_SR | | |
| | 1E | |
| SVPSE_SR_OFF | 30 | 8 |
| SVPSE_SR_ON | 30 | 4 |
| SVPSE_SR_RESERVED | | |
| | 30 | C |
| SVPSE_SR_RESERVED1 | | |
| | 21 | |
| SVPSE_SR_RESERVED2 | | |
| | 24 | |
| SVPSE_SR_RESOURCE_NAME | | |
| | 10 | |
| SVPSE_SR_RESOURCE_STATE | | |
| | 20 | |
| SVPSE_SR_SCHENV_NAME | | |
| | 0 | |
| SVPSE_SR_SECTION | | |
| | 30 | 4 |
| SVPSE_SVPSESEQ | | |
| | C | |
| SVPSE_VER604 | 30 | 4 |
| SVPSE_VER605 | 30 | 5 |
| SVPSE_VER606 | 30 | 6 |
| SVPSE_VER607 | 30 | 7 |
| SVPSE_VER608 | 30 | 8 |
| SVPSE_VER703 | 30 | B |
| SVPSE_VER705 | 30 | D |
| SVPSE_WLM_VERSION_NUMBER | | |
| | 5 | |
| SVPSEHDR | 0 | |
| SVPSEHDR_LEN | A0 | A0 |
| SVPSERE | 0 | |
| SVPSERE_LEN | 58 | 58 |
| SVPSESE | 0 | |
| SVPSESE_LEN | 58 | 58 |
| SVPSESR | 0 | |
| SVPSESR_LEN | 4C | 4C |

IWMSVSEA Programming Interface information

Programming Interface information

IWMSVSEA

End of Programming Interface information

IWMSVSEA Heading Information

Common Name: WLM Service Definition Scheduling Environment mapping
Macro ID: IWMSVSEA
DSECT Name: SVSEAHDR - SVSEA header SVSEASE - scheduling environments SVSEASR - scheduling environments/resources SVSEARE - resources SVSEAEXT - extensions
Owning Component: Workload Manager (SCWLM)
Eye-Catcher ID: SVSE
Offset: 0
Length: CHAR(4)
Storage Attributes: Subpool: Any
Key: Any
Residency: Above 16M line
Size: Determined at run time
Created by: Caller
Pointed to by: Offset within SERV D (IWMSEVRD) mapping
Serialization: None
Function: Contains service definition scheduling environments information.

IWMSVSEA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|---------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | SVSEAHDR | |
| 0 | (0) | CHARACTER | 4 | SVSEA_EYECATCHER | IWMSVSEA.16: Eye catcher for SVSEA - SVSE |
| 4 | (4) | SIGNED | 1 | SVSEA_FUNCTIONALITY_LEVEL | IWMSVSEA.22: Functionality level of the SVSEA. The functionality level defines the highest level of WLM function that exists in the SVSEA |
| 5 | (5) | SIGNED | 1 | SVSEA_WLM_VERSION_NUMBER | IWMSVSEA.28: WLM version number |
| 6 | (6) | SIGNED | 2 | SVSEA_SIZE_OF_HEADER | IWMSVSEA.34: Size of header section |
| 8 | (8) | SIGNED | 4 | SVSEA_SIZE_OF_WHOLE_SVSEA | IWMSVSEA.40: Size of the whole scheduling environment section |
| 12 | (C) | SIGNED | 4 | SVSEA_RESERVED1 | IWMSVSEA.46: Reserved |
| 16 | (10) | CHARACTER | 56 | SVSEA_OFFSETS_AREA | IWMSVSEA.53: SVSEA section offsets area |
| 16 | (10) | SIGNED | 4 | SVSEA_OFFSET_SE | IWMSVSEA.57: Offset of scheduling environment section |
| 20 | (14) | SIGNED | 2 | SVSEA_NUMBER_SE | IWMSVSEA.63: Number of scheduling environments |
| 22 | (16) | SIGNED | 2 | SVSEA_SIZE_SE | IWMSVSEA.69: Size of an scheduling environment entry |
| 24 | (18) | SIGNED | 4 | SVSEA_OFFSET_SR | IWMSVSEA.721: Offset of scheduling environment- /resource section |
| 28 | (1C) | SIGNED | 2 | SVSEA_NUMBER_SR | IWMSVSEA.727: Number of scheduling environment- /resource |
| 30 | (1E) | SIGNED | 2 | SVSEA_SIZE_SR | IWMSVSEA.733: Size of an scheduling environment- /resource section |
| 32 | (20) | SIGNED | 4 | SVSEA_OFFSET_RE | IWMSVSEA.741: Offset of resource section |
| 36 | (24) | SIGNED | 2 | SVSEA_NUMBER_RE | IWMSVSEA.747: Number of resources |
| 38 | (26) | SIGNED | 2 | SVSEA_SIZE_RE | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------------------|--|
| Dec | Hex | | | | |
| 40 | (28) | SIGNED | 4 | SVSEA_OFFSET_RESERVED1 | IWMSVSEA.753: Size of an resource entry |
| 44 | (2C) | SIGNED | 2 | SVSEA_NUMBER_RESERVED1 | IWMSVSEA.76: Reserved offset |
| 46 | (2E) | SIGNED | 2 | SVSEA_SIZE_RESERVED1 | IWMSVSEA.82: Reserved number |
| 48 | (30) | SIGNED | 4 | SVSEA_OFFSET_RESERVED2 | IWMSVSEA.88: Reserved size |
| 52 | (34) | SIGNED | 2 | SVSEA_NUMBER_RESERVED2 | IWMSVSEA.95: Reserved offset |
| 54 | (36) | SIGNED | 2 | SVSEA_SIZE_RESERVED2 | IWMSVSEA.101: Reserved number |
| 56 | (38) | SIGNED | 4 | SVSEA_OFFSET_RESERVED3 | IWMSVSEA.107: Reserved size |
| 60 | (3C) | SIGNED | 2 | SVSEA_NUMBER_RESERVED3 | IWMSVSEA.758: Reserved offset |
| 62 | (3E) | SIGNED | 2 | SVSEA_SIZE_RESERVED3 | IWMSVSEA.734: Reserved number |
| 64 | (40) | SIGNED | 4 | SVSEA_OFFSET_RESERVED4 | IWMSVSEA.770: Reserved size |
| 68 | (44) | SIGNED | 2 | SVSEA_NUMBER_RESERVED4 | IWMSVSEA.781: Reserved offset |
| 70 | (46) | SIGNED | 2 | SVSEA_SIZE_RESERVED4 | IWMSVSEA.787: Reserved number |
| 72 | (48) | CHARACTER | 72 | SVSEA_EXT_OFFSETS_AREA | IWMSVSEA.793: Reserved size |
| 72 | (48) | CHARACTER | 8 | SVSEA_EXT_BASICS | IWMSVSEA.114: SVSEA extension offsets area |
| 72 | (48) | SIGNED | 4 | SVSEA_EXT_DATA_OFF | IWMSVSEA.412: Basic offsets/length |
| 76 | (4C) | SIGNED | 4 | SVSEA_EXT_DATA_LEN | IWMSVSEA.117: Offset of extended data (0 if no extended data exists) |
| 80 | (50) | CHARACTER | 8 | SVSEAHDR_EXT | IWMSVSEA.123: Length of extended data |
| 80 | (50) | SIGNED | 4 | SVSEA_EXT_OFF | IWMSVSEA.597: SVSEAHDR section |
| 84 | (54) | SIGNED | 2 | SVSEA_EXT_NUM | IWMSVSEA.129: Offset of SVSEAHDR header extension |
| 86 | (56) | SIGNED | 2 | SVSEA_EXT_SIZ | IWMSVSEA.135: Number of SVSEAHDR general extension entries |
| 88 | (58) | CHARACTER | 8 | SVSEASE_EXT | IWMSVSEA.141: Size of each SVSEAHDR general extension entry |
| 88 | (58) | SIGNED | 4 | SVSEA_EXT_OFF_SE | IWMSVSEA.415: SVSEASE section |
| 92 | (5C) | SIGNED | 2 | SVSEA_EXT_NUM_SE | IWMSVSEA.937: Offset of SVSEASE section extension |
| 94 | (5E) | SIGNED | 2 | SVSEA_EXT_SIZ_SE | IWMSVSEA.943: Number of SVSEASE extension entries |
| 96 | (60) | CHARACTER | 8 | SVSEASR_EXT | IWMSVSEA.949: Size of each SVSEASE extension entry |
| 96 | (60) | SIGNED | 4 | SVSEA_EXT_OFF_SR | IWMSVSEA.932: SVSEASR section |
| 100 | (64) | SIGNED | 2 | SVSEA_EXT_NUM_SR | IWMSVSEA.958: Offset of SVSEASR section extension |
| 102 | (66) | SIGNED | 2 | SVSEA_EXT_SIZ_SR | IWMSVSEA.964: Number of SVSEASR extension entries |
| 104 | (68) | CHARACTER | 8 | SVSEARE_EXT | IWMSVSEA.970: Size of each SVSEASR extension entry |
| 104 | (68) | SIGNED | 4 | SVSEA_EXT_OFF_RE | IWMSVSEA.955: SVSEARE section |
| 108 | (6C) | SIGNED | 2 | SVSEA_EXT_NUM_RE | IWMSVSEA.979: Offset of SVSEARE section extension |
| 110 | (6E) | SIGNED | 2 | SVSEA_EXT_SIZ_RE | IWMSVSEA.985: Number of SVSEARE extension entries |
| | | | | | IWMSVSEA.991: Size of each SVSEARE extension entry |

IWMSVSEA Map

| Offsets | | | | | |
|---------|------|------------|-----|--------------------|-------------------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 112 | (70) | CHARACTER | 32 | SVSEA_EXT_RESERVED | IWMSVSEA.266: Reserved |
| 112 | (70) | SIGNED | 4 | SVSEA_EXT_OFF_RSV1 | IWMSVSEA.147: Offset reserved |
| 116 | (74) | SIGNED | 2 | SVSEA_EXT_NUM_RSV1 | IWMSVSEA.153: Number reserved |
| 118 | (76) | SIGNED | 2 | SVSEA_EXT_SIZ_RSV1 | IWMSVSEA.159: Size reserved |
| 120 | (78) | SIGNED | 4 | SVSEA_EXT_OFF_RSV2 | IWMSVSEA.165: Offset reserved |
| 124 | (7C) | SIGNED | 2 | SVSEA_EXT_NUM_RSV2 | IWMSVSEA.171: Number reserved |
| 126 | (7E) | SIGNED | 2 | SVSEA_EXT_SIZ_RSV2 | IWMSVSEA.177: Size reserved |
| 128 | (80) | SIGNED | 4 | SVSEA_EXT_OFF_RSV3 | IWMSVSEA.797: Offset reserved |
| 132 | (84) | SIGNED | 2 | SVSEA_EXT_NUM_RSV3 | IWMSVSEA.800: Number reserved |
| 134 | (86) | SIGNED | 2 | SVSEA_EXT_SIZ_RSV3 | IWMSVSEA.806: Size reserved |
| 136 | (88) | SIGNED | 4 | SVSEA_EXT_OFF_RSV4 | IWMSVSEA.812: Offset reserved |
| 140 | (8C) | SIGNED | 2 | SVSEA_EXT_NUM_RSV4 | IWMSVSEA.818: Number reserved |
| 142 | (8E) | SIGNED | 2 | SVSEA_EXT_SIZ_RSV4 | IWMSVSEA.827: Size reserved |
| 144 | (90) | SIGNED | 4 | SVSEA_RESERVED | IWMSVSEA.183: Reserved |
| 184 | (B8) | X'B8' | 0 | SVSEAHDR_LEN | **-SVSEAHDR" |

| Offsets | | | | | |
|---------|------|------------|-----|----------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | SVSEASE | |
| 0 | (0) | CHARACTER | 16 | SVSEA_SE_SCHENV_NAME | IWMSVSEA.203: Scheduling environment name |
| 16 | (10) | CHARACTER | 32 | SVSEA_SE_DESCRIPTION | IWMSVSEA.209: Scheduling environment description |
| 48 | (30) | CHARACTER | 8 | SVSEA_SE_RESERVED | IWMSVSEA.290: Reserved |
| 88 | (58) | X'58' | 0 | SVSEASE_LEN | **-SVSEASE" |

| Offsets | | | | | |
|---------|------|------------|-----|-------------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | SVSEASR | |
| 0 | (0) | CHARACTER | 16 | SVSEA_SR_SCHENV_NAME | IWMSVSEA.880: Scheduling environment name |
| 16 | (10) | CHARACTER | 16 | SVSEA_SR_RESOURCE_NAME | IWMSVSEA.900: Resource name |
| 32 | (20) | SIGNED | 1 | SVSEA_SR_RESOURCE_STATE | IWMSVSEA.877: Required resource state |
| 33 | (21) | CHARACTER | 1 | SVSEA_SR_RESERVED1 | IWMSVSEA.906: Reserved |
| 36 | (24) | CHARACTER | 8 | SVSEA_SR_RESERVED2 | IWMSVSEA.892: Reserved |
| 76 | (4C) | X'4C' | 0 | SVSEASR_LEN | **-SVSEASR" |

| Offsets | | | | | |
|---------|-----|------------|-----|------------|-------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | SVSEARE | |

| Offsets | | | | | |
|---------|------|------------|-----|------------------------|------------------------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | CHARACTER | 16 | SVSEA_RE_RESOURCE_NAME | IWMSVSEA.846: Resource name |
| 16 | (10) | CHARACTER | 32 | SVSEA_RE_DESCRIPTION | IWMSVSEA.804: Resource description |
| 48 | (30) | CHARACTER | 8 | SVSEA_RE_RESERVED | IWMSVSEA.858: Reserved |
| 88 | (58) | X'58' | 0 | SVSEARE_LEN | **SVSEARE" |

| Offsets | | | | | |
|---------|------|------------|-----|------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | SVSEAEXT | |
| 0 | (0) | CHARACTER | 8 | SVSEAVID | IWMSVSEA.306: Vendor/product ID that owns the entry |
| 8 | (8) | CHARACTER | 16 | SVSEAROB | IWMSVSEA.312: Related object name - name of object (for example, scheduling environment name, SVSEA_SE_SC-HENV_NAME) which this extension entry extends |
| 24 | (18) | SIGNED | 4 | SVSEAEDL | IWMSVSEA.318: Extended data length |
| 28 | (1C) | SIGNED | 4 | SVSEAEDO | IWMSVSEA.324: Extended data offset - offset is from beginning of the extended data whose offset is in SVSEA_EXT_DATA_OFF |

Comment

IWMSVSEA.393: SVSEA identifier

End of Comment

| | | | | | |
|----|------|-----------|---|----------|----------|
| 28 | (1C) | X'E5E2C5' | 0 | SVSEA_ID | "C'SVSE" |
|----|------|-----------|---|----------|----------|

Comment

IWMSVSEA.402: Functionality level introduced by WLM in SP510.
This is set by JBB6604 when no scheduling environments were defined.

End of Comment

| | | | | | |
|----|------|------|---|----------------|-----|
| 28 | (1C) | X'1' | 0 | SVSEA_LEVEL001 | "1" |
|----|------|------|---|----------------|-----|

Comment

IWMSVSEA.429: Functionality level introduced by WLM in OS/390 R4

End of Comment

| | | | | | |
|----|------|------|---|----------------|-----|
| 28 | (1C) | X'4' | 0 | SVSEA_LEVEL004 | "4" |
|----|------|------|---|----------------|-----|

Comment

IWMSVSEA.438: WLM version number for OS/390 R4

End of Comment

| | | | | | |
|----|------|------|---|--------------|-----|
| 28 | (1C) | X'4' | 0 | SVSEA_VER604 | "4" |
|----|------|------|---|--------------|-----|

Comment

IWMSVSEA.999: Functionality level introduced by WLM in OS/390 R5

End of Comment

| | | | | | |
|----|------|------|---|----------------|-----|
| 28 | (1C) | X'5' | 0 | SVSEA_LEVEL005 | "5" |
|----|------|------|---|----------------|-----|

IWMSVSEA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description | | | | |
|---|------|------------|-----|----------------|-------------|--|--|--|--|
| Dec | Hex | | | | | | | | |
| Comment | | | | | | | | | |
| IWMSVSEA.1028: WLM version number for OS/390 R5 | | | | | | | | | |
| End of Comment | | | | | | | | | |
| 28 | (1C) | X'5' | 0 | SVSEA_VER605 | "5" | | | | |
| Comment | | | | | | | | | |
| IWMSVSEA.1037: Functionality level introduced by WLM in OS/390 R6 | | | | | | | | | |
| End of Comment | | | | | | | | | |
| 28 | (1C) | X'6' | 0 | SVSEA_LEVEL006 | "6" | | | | |
| Comment | | | | | | | | | |
| IWMSVSEA.1046: WLM version number for OS/390 R6 | | | | | | | | | |
| End of Comment | | | | | | | | | |
| 28 | (1C) | X'6' | 0 | SVSEA_VER606 | "6" | | | | |
| Comment | | | | | | | | | |
| IWMSVSEA.536: Functionality level introduced by WLM in OS/390 R7 | | | | | | | | | |
| End of Comment | | | | | | | | | |
| 28 | (1C) | X'7' | 0 | SVSEA_LEVEL007 | "7" | | | | |
| Comment | | | | | | | | | |
| IWMSVSEA.1063: WLM version number for OS/390 R7 | | | | | | | | | |
| End of Comment | | | | | | | | | |
| 28 | (1C) | X'7' | 0 | SVSEA_VER607 | "7" | | | | |
| Comment | | | | | | | | | |
| IWMSVSEA.1074: Functionality level introduced by WLM in OS/390 R7 | | | | | | | | | |
| End of Comment | | | | | | | | | |
| 28 | (1C) | X'8' | 0 | SVSEA_LEVEL008 | "8" | | | | |
| Comment | | | | | | | | | |
| IWMSVSEA.1083: WLM version number for OS/390 R7 | | | | | | | | | |
| End of Comment | | | | | | | | | |
| 28 | (1C) | X'8' | 0 | SVSEA_VER608 | "8" | | | | |
| Comment | | | | | | | | | |
| IWMSVSEA.1117: Reserved functionality level | | | | | | | | | |
| End of Comment | | | | | | | | | |
| 28 | (1C) | X'9' | 0 | SVSEA_LEVEL009 | "9" | | | | |

| Offsets | | Type/Value | Len | Name (Dim) | Description | | | | |
|--|------|------------|-----|--------------------|-------------|--|--|--|--|
| Dec | Hex | | | | | | | | |
| Comment | | | | | | | | | |
| IWMSVSEA.1171: Reserved WLM version number for OS/390 V2R8 | | | | | | | | | |
| End of Comment | | | | | | | | | |
| 28 | (1C) | X'9' | 0 | SVSEA_RESERVED_R08 | "9" | | | | |
| Comment | | | | | | | | | |
| IWMSVSEA.1095: Reserved functionality level | | | | | | | | | |
| End of Comment | | | | | | | | | |
| 28 | (1C) | X'A' | 0 | SVSEA_LEVEL010 | "10" | | | | |
| Comment | | | | | | | | | |
| IWMSVSEA.1180: Reserved WLM version number for OS/390 V2R9 | | | | | | | | | |
| End of Comment | | | | | | | | | |
| 28 | (1C) | X'A' | 0 | SVSEA_RESERVED_R09 | "10" | | | | |
| Comment | | | | | | | | | |
| IWMSVSEA.1126: Functionality level introduced by WLM in OS/390 R10 | | | | | | | | | |
| End of Comment | | | | | | | | | |
| 28 | (1C) | X'B' | 0 | SVSEA_LEVEL011 | "11" | | | | |
| Comment | | | | | | | | | |
| IWMSVSEA.1102: WLM version number for OS/390 R10 | | | | | | | | | |
| End of Comment | | | | | | | | | |
| 28 | (1C) | X'B' | 0 | SVSEA_VER703 | "11" | | | | |
| Comment | | | | | | | | | |
| IWMSVSEA.1167: Reserved functionality level | | | | | | | | | |
| End of Comment | | | | | | | | | |
| 28 | (1C) | X'C' | 0 | SVSEA_LEVEL012 | "12" | | | | |
| Comment | | | | | | | | | |
| IWMSVSEA.1158: Reserved WLM version number for OS/390 V2R11 | | | | | | | | | |
| End of Comment | | | | | | | | | |
| 28 | (1C) | X'C' | 0 | SVSEA_RESERVED_R11 | "12" | | | | |
| Comment | | | | | | | | | |
| IWMSVSEA.1135: Functionality level introduced by WLM in OS/390 R12 | | | | | | | | | |
| End of Comment | | | | | | | | | |
| 28 | (1C) | X'D' | 0 | SVSEA_LEVEL013 | | | | | |

IWMSVSEA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|---|-------------|
| Dec | Hex | | | | |
| | | | | | "13" |
| | | | | Comment | |
| | | | | IWMSVSEA.1144: WLM version number for OS/390 R12 | |
| | | | | End of Comment | |
| 28 | (1C) | X'D' | 0 | SVSEA_VER705 | "13" |
| | | | | Comment | |
| | | | | IWMSVSEA.447: Current version level used when checking functionality within WLM product | |
| | | | | End of Comment | |
| 28 | (1C) | X'D' | 0 | SVSEA_CURRENT_VER | "13" |
| | | | | Comment | |
| | | | | IWMSVSEA.920: SVSEA_SR_RESOURCE_STATE that indicates resource is desired to be ON | |
| | | | | End of Comment | |
| 28 | (1C) | X'4' | 0 | SVSEA_SR_ON | "4" |
| | | | | Comment | |
| | | | | IWMSVSEA.1009: SVSEA_SR_RESOURCE_STATE that indicates resource is desired to be OFF | |
| | | | | End of Comment | |
| 28 | (1C) | X'8' | 0 | SVSEA_SR_OFF | "8" |
| | | | | Comment | |
| | | | | IWMSVSEA.1018: SVSEA_SR_RESOURCE_STATE that is reserved | |
| | | | | End of Comment | |
| 28 | (1C) | X'C' | 0 | SVSEA_SR_RESERVED | "12" |
| | | | | Comment | |
| | | | | IWMSVSEA.468: SVSEA section symbolic constant | |
| | | | | End of Comment | |
| 28 | (1C) | X'3B' | 0 | SVSEA_SECTION | "59" |
| | | | | Comment | |
| | | | | IWMSVSEA.477: SVSEA header symbolic constant | |
| | | | | End of Comment | |
| 28 | (1C) | X'3C' | 0 | SVSEA_HDR_SECTION | "60" |
| | | | | Comment | |
| | | | | IWMSVSEA.486: SVSEA SE symbolic constant | |
| | | | | End of Comment | |
| 28 | (1C) | X'3D' | 0 | SVSEA_SE_SECTION | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-------------------|---|
| Dec | Hex | | | | |
| | | | | | "61" |
| | | | | Comment | |
| | | | | | IWMSVSEA.243: SVSEA SR symbolic constant |
| | | | | End of Comment | |
| 28 | (1C) | X'3D' | 0 | SVSEA_SR_SECTION | "61" |
| | | | | Comment | |
| | | | | | IWMSVSEA.253: SVSEA RE symbolic constant |
| | | | | End of Comment | |
| 28 | (1C) | X'3D' | 0 | SVSEA_RE_SECTION | "61" |
| | | | | Comment | |
| | | | | | IWMSVSEA.496: SVSEA extension symbolic constant |
| | | | | End of Comment | |
| 28 | (1C) | X'3E' | 0 | SVSEA_EXT_SECTION | "62" |
| 28 | (1C) | X'20' | 0 | SVSEAEXT_LEN | **-SVSEAEXT" |

IWMSVSEA Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|--------------------|------------|-----------|---------------------------|------------|-----------|
| SVSEA_CURRENT_VER | | | | 80 | |
| SVSEA_EXT_BASICS | 1C | D | SVSEA_EXT_OFF_RSV4 | | |
| | 48 | | | 88 | |
| SVSEA_EXT_DATA_LEN | | | SVSEA_EXT_OFF_SE | 58 | |
| | 4C | | SVSEA_EXT_OFF_SR | 60 | |
| SVSEA_EXT_DATA_OFF | | | SVSEA_EXT_OFFSETS_AREA | | |
| | 48 | | | 48 | |
| SVSEA_EXT_NUM | | | SVSEA_EXT_RESERVED | 70 | |
| | 54 | | SVSEA_EXT_SECTION | 1C | 3E |
| SVSEA_EXT_NUM_RE | | | SVSEA_EXT_SIZ | | |
| | 6C | | | 56 | |
| SVSEA_EXT_NUM_RSV1 | | | SVSEA_EXT_SIZ_RE | 6E | |
| | 74 | | SVSEA_EXT_SIZ_RSV1 | 76 | |
| SVSEA_EXT_NUM_RSV2 | | | SVSEA_EXT_SIZ_RSV2 | 7E | |
| | 7C | | SVSEA_EXT_SIZ_RSV3 | 86 | |
| SVSEA_EXT_NUM_RSV3 | | | SVSEA_EXT_SIZ_RSV4 | 8E | |
| | 84 | | SVSEA_EXT_SIZ_SE | 5E | |
| SVSEA_EXT_NUM_RSV4 | | | SVSEA_EXT_SIZ_SR | 66 | |
| | 8C | | SVSEA_EYECATCHER | 0 | |
| SVSEA_EXT_NUM_SE | | | SVSEA_FUNCTIONALITY_LEVEL | 4 | |
| | 5C | | | | |
| SVSEA_EXT_NUM_SR | | | | | |
| | 64 | | | | |
| SVSEA_EXT_OFF | | | | | |
| | 50 | | | | |
| SVSEA_EXT_OFF_RE | | | | | |
| | 68 | | | | |
| SVSEA_EXT_OFF_RSV1 | | | | | |
| | 70 | | | | |
| SVSEA_EXT_OFF_RSV2 | | | | | |
| | 78 | | | | |
| SVSEA_EXT_OFF_RSV3 | | | | | |

IWMSVSEA Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|------------------------|---------------|--------------|---------------------------|---------------|--------------|
| SVSEA_HDR_SECTION | 1C | 3C | SVSEA_RESERVED_R08 | 1C | 9 |
| SVSEA_ID | 1C | E5E2C5 | SVSEA_RESERVED_R09 | 1C | A |
| SVSEA_LEVEL001 | 1C | 1 | SVSEA_RESERVED_R11 | 1C | C |
| SVSEA_LEVEL004 | 1C | 4 | SVSEA_RESERVED1 | C | |
| SVSEA_LEVEL005 | 1C | 5 | SVSEA_SE_DESCRIPTION | 10 | |
| SVSEA_LEVEL006 | 1C | 6 | SVSEA_SE_RESERVED | 30 | |
| SVSEA_LEVEL007 | 1C | 7 | SVSEA_SE_SCHENV_NAME | 0 | |
| SVSEA_LEVEL008 | 1C | 8 | SVSEA_SE_SECTION | 1C | 3D |
| SVSEA_LEVEL009 | 1C | 9 | SVSEA_SECTION | 1C | 3B |
| SVSEA_LEVEL010 | 1C | A | SVSEA_SIZE_OF_HEADER | 6 | |
| SVSEA_LEVEL011 | 1C | B | SVSEA_SIZE_OF_WHOLE_SVSEA | 8 | |
| SVSEA_LEVEL012 | 1C | C | SVSEA_SIZE_RE | 26 | |
| SVSEA_LEVEL013 | 1C | D | SVSEA_SIZE_RESERVED1 | 2E | |
| SVSEA_NUMBER_RE | 24 | | SVSEA_SIZE_RESERVED2 | 36 | |
| SVSEA_NUMBER_RESERVED1 | 2C | | SVSEA_SIZE_RESERVED3 | 3E | |
| SVSEA_NUMBER_RESERVED2 | 34 | | SVSEA_SIZE_RESERVED4 | 46 | |
| SVSEA_NUMBER_RESERVED3 | 3C | | SVSEA_SIZE_SE | 16 | |
| SVSEA_NUMBER_RESERVED4 | 44 | | SVSEA_SIZE_SR | 1E | |
| SVSEA_NUMBER_SE | 14 | | SVSEA_SR_OFF | 1C | 8 |
| SVSEA_NUMBER_SR | 1C | | SVSEA_SR_ON | 1C | 4 |
| SVSEA_OFFSET_RE | 20 | | SVSEA_SR_RESERVED | 1C | C |
| SVSEA_OFFSET_RESERVED1 | 28 | | SVSEA_SR_RESERVED1 | 21 | |
| SVSEA_OFFSET_RESERVED2 | 30 | | SVSEA_SR_RESERVED2 | 24 | |
| SVSEA_OFFSET_RESERVED3 | 38 | | SVSEA_SR_RESOURCE_NAME | 10 | |
| SVSEA_OFFSET_RESERVED4 | 40 | | SVSEA_SR_RESOURCE_STATE | 20 | |
| SVSEA_OFFSET_SE | 10 | | SVSEA_SR_SCHENV_NAME | 0 | |
| SVSEA_OFFSET_SR | 18 | | SVSEA_SR_SECTION | 1C | 3D |
| SVSEA_OFFSETS_AREA | 10 | | SVSEA_VER604 | 1C | 4 |
| SVSEA_RE_DESCRIPTION | 10 | | SVSEA_VER605 | 1C | 5 |
| SVSEA_RE_RESERVED | 30 | | SVSEA_VER606 | 1C | 6 |
| SVSEA_RE_RESOURCE_NAME | 0 | | SVSEA_VER607 | 1C | 7 |
| SVSEA_RE_SECTION | 1C | 3D | SVSEA_VER608 | 1C | 8 |
| SVSEA_RESERVED | 90 | | SVSEA_VER703 | 1C | B |
| | | | SVSEA_VER705 | 1C | D |
| | | | SVSEA_WLM_VERSION_NUMBER | 5 | |
| | | | SVSEAEDL | 18 | |
| | | | SVSEAEDO | 1C | |
| | | | SVSEAEXT | 0 | |
| | | | SVSEAEXT_LEN | 1C | 20 |

| Name | Hex Offset | Hex Value |
|--------------|---------------|--------------|
| SVSEAHDR | 0 | |
| SVSEAHDR_EXT | 50 | |
| SVSEAHDR_LEN | B8 | B8 |
| SVSEARE | 0 | |
| SVSEARE_EXT | 68 | |
| SVSEARE_LEN | 58 | 58 |
| SVSEAROB | 8 | |
| SVSEASE | 0 | |
| SVSEASE_EXT | 58 | |
| SVSEASE_LEN | 58 | 58 |
| SVSEASR | 0 | |
| SVSEASR_EXT | 60 | |
| SVSEASR_LEN | 4C | 4C |
| SVSEAVID | 0 | |

IWMWRCAA Programming Interface information

Programming Interface information

IWMWRCAA

End of Programming Interface information

IWMWRCAA Heading Information

Common Name: IWMRCOLL Answer Area
Macro ID: IWMWRCAA
DSECT Name: RCAA, RCAA and others
Owning Component: Workload Manager (SCWLM)
Eye-Catcher ID: RCAA and RCAA
 Offset: 0
 Length: CHAR(4)
Storage Attributes: Subpool: Any
 Key: 0
 Residency: Above 16M line
Size: Determined at run time
Created by: Caller
Pointed to by: Pointed to by the ANSAREA_ADDR field in the IWMRCOLL parameter list
Serialization: None
Function: Contains workload activity reporting information

IWMWRCAA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|--------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | RCAA | Workload Activity Collection Answer Area |
| 0 | (0) | CHARACTER | 4 | RCAAACRO | Acronym |
| 4 | (4) | SIGNED | 4 | RCAASIZ | Size of RCAA and all of its subordinate parts |
| 8 | (8) | SIGNED | 1 | RCAAVERS | Version |
| 9 | (9) | BITSTRING | 1 | RCAAMODE (0) | System WLM mode |
| | | 1... | | RCAAGOAL | "X'80" System is in goal mode |
| | | .1.. | | RCAACOMP | "X'40" System is in compatibility mode |
| | | ..1. | | RCAAOVEL | "X'20" System is calculating velocity without using I/O delays. |
| | | ...1 1111 | | RCAARSV | "X'1F" Reserved |
| 10 | (A) | CHARACTER | 2 | RCAAOPT | IEAOPTxx suffix |
| 12 | (C) | BITSTRING | 8 | RCAATMI | Local time reporting was last initialized (STCK format) |
| 20 | (14) | BITSTRING | 8 | RCAATMR | Local time this RCAA data was collected (STCK format) |
| 28 | (1C) | CHARACTER | 32 | RCAAGINF (0) | Goal mode information |
| 28 | (1C) | CHARACTER | 8 | RCAAPNAM | Policy name |
| 36 | (24) | BITSTRING | 8 | RCAAPTM | Local time policy was activated (STCK format) |
| 44 | (2C) | CHARACTER | 8 | RCAAUID | Userid of person who activated policy |
| 52 | (34) | CHARACTER | 8 | RCAAPSYS | System that policy was activated on |
| 60 | (3C) | CHARACTER | 24 | RCAACINF (0) | Compatibility mode information |
| 60 | (3C) | CHARACTER | 2 | RCAAIIPS | IEAIIPSxx suffix |
| 62 | (3E) | CHARACTER | 2 | RCAAIICS | IEAIICSxx suffix |
| 64 | (40) | CHARACTER | 20 | RCAASCO (0) | Service coefficients |
| 64 | (40) | CHARACTER | 4 | RCAAIIPC | CPU service coefficient |
| 68 | (44) | CHARACTER | 4 | RCAAIPI | I/O service coefficient |
| 72 | (48) | CHARACTER | 4 | RCAAIPIB | SRB service coefficient |
| 76 | (4C) | CHARACTER | 8 | RCAAIIPM | MSO service coefficient |
| 84 | (54) | SIGNED | 4 | RCAANTVL | Current sample interval (in milliseconds). This is the frequency with which WLM samples delays reported in the RCAA |
| 88 | (58) | SIGNED | 4 | RCAANTV# | Total number of times WLM sampling code ran. A monitor issuing successive calls to IWMRCOLL should not assume that WLM sampling code ran at the interval specified by RCAANTVL between its calls. This field can be used to translate sampled state data into actual percentages of time. |
| 92 | (5C) | SIGNED | 2 | RCAABMPL | Length of an entry in the response time distribution mapping array |
| 94 | (5E) | SIGNED | 2 | RCAABMP# | Number of response time distribution buckets |
| 96 | (60) | SIGNED | 4 | RCAABMPO | Offset from RCAA to response time distribution mapping array (RCAABMAP) |

| Offsets | | | | | |
|---------|------|------------|-----|------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 100 | (64) | SIGNED | 2 | RCAASCAL | Length of one RCAE workload activity entry in the RCAASCOF array |
| 102 | (66) | SIGNED | 2 | RCAASCA# | Number of entries in RCAASCOF array. In compatibility mode this is one + the highest PGN, RPGN, or OPGN value. (The extra entry is for PGN 0.) In goal mode, this is the number of service classes returned in IWMSVPOL by IWMPQRY. |
| 104 | (68) | SIGNED | 4 | RCAASCOF | Offset from RCAA to array of RCAE entries. In goal mode these entries represent service classes. In compatibility mode they represent either PGNs or RPGNs. |
| 108 | (6C) | SIGNED | 2 | RCAARCAL | Length of one RCAE workload activity entry in the RCAARCOF array |
| 110 | (6E) | SIGNED | 2 | RCAARCA# | Number of entries in RCAARCOF array. In compatibility mode this field is always zero. In goal mode this field is the number of report classes returned in IWMSVPOL by IWMPQRY |
| 112 | (70) | SIGNED | 4 | RCAARCOF | Offset from RCAA to array of RCAE entries. Only valid in goal mode. |
| 116 | (74) | SIGNED | 4 | RCAACLVL | Current change level. |
| 120 | (78) | BITSTRING | 8 | RCAAINTI | Token that represents the time when WLM has completed building the RCAA. RCAAINTI must be used to determine whether a report class period is homogeneous or not. |
| 120 | (78) | X'80' | 0 | RCAA_LEN | **-RCAA" |

| Offsets | | | | | |
|---------|-----|------------|-----|--------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | RCAABMAP | RCAA response time distribution map array |
| 0 | (0) | SIGNED | 4 | RCAABENT | Response time distribution bucket mappings. Each word defines a maximum % of a goal (ie. 50, 70, 100, etc.) When used in conjunction with an RCAEDENT, a monitor product can show the number of transactions that completed in a percentage of a goal. The last entry in the array contains X'FFFFFFF'. |
| 0 | (0) | X'4' | 0 | RCAABMAP_LEN | This indicates that this bucket includes all transactions that completed with longer response times than the previous bucket. **-RCAABMAP" |

| Offsets | | | | | |
|---------|-----|------------|-----|--------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | RCAAICSS | RCAA ICS information - provided in compatibility mode only |
| 0 | (0) | SIGNED | 4 | RCAAICSX | Offset from RCAAICSS to symbol table index array. Mapped by IRAICSM |
| 4 | (4) | SIGNED | 4 | RCAAICSM | Offset from RCAAICSS to symbol table. Mapped by IRAICSM |
| 8 | (8) | SIGNED | 4 | RCAAICSL | Length of index array and symbol table |
| 8 | (8) | X'C' | 0 | RCAAICSS_LEN | **-RCAAICSS" |

| Offsets | | | | | |
|---------|-----|------------|-----|--------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | RCAE | Workload Activity Collection Entry (RCAE). Pointed to by RCAASCOF and RCAARCOF which are within the RCAA. |
| 0 | (0) | CHARACTER | 4 | RCAEACRO | Acronym |
| 4 | (4) | SIGNED | 1 | RCAEVERS | Version |
| 5 | (5) | BITSTRING | 1 | RCAETYPE (0) | What this RCAE represents |
| | | 1... | | RCAEPGN | "X'80'" Performance group |
| | | .1.. | | RCAERPGN | "X'40'" Report performance group |
| | | ..1. | | RCAESCL | "X'20'" Service class |
| | | ...1 | | RCAERCL | "X'10'" Report class |
| | | 1... | | RCAENIU | "X'08'" This RCAE is not in use. This indicator is set in compatibility mode for those entries that are not validly defined in either the IPS or ICS |
| | |111 | | RCAEHRS1 | "X'07'" Reserved |

IWMWRCOA Map

| Offsets | | | | | |
|---------|------|------------|-----|---------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 6 | (6) | SIGNED | 2 | RCAECLX | RCAE index. In goal mode, this is the index into the service class or report class list returned by IWMPQRY. In compatibility mode, this is the PGN or RPGN number. Note 0 is a valid PGN number. |
| 8 | (8) | CHARACTER | 2 | RCAEHRS2 | Reserved |
| 10 | (A) | SIGNED | 2 | RCAEPER# | Number of period data entries for this RCAE. |
| 12 | (C) | SIGNED | 4 | RCAEPerl | Length of all of the period data associated with this RCAE entry. |
| 16 | (10) | SIGNED | 4 | RCAEPErO | Offset from RCAE to first period's data. Zero is only valid in compatibility mode and indicates that the PGN or RPGN was not defined in the IPS or ICS |
| 20 | (14) | SIGNED | 2 | RCAESCL# | Number of entries in the RCAESCLS array. That is, the number of service classes being served by one or more address spaces in the service class specified by RCAECLX. Valid only in goal mode. |
| 22 | (16) | SIGNED | 2 | RCAESCLL | Length of a single entry (RCAESCLS) in the server data array. |
| 24 | (18) | SIGNED | 4 | RCAESCLO | Offset from RCAE to RCAESCLS array. Zero indicates there is no server data available for this service class |
| 28 | (1C) | SIGNED | 2 | RCAECLSC | Indicating the index of the service class that last contributed to this report class. Zero for a service class entry. |
| 30 | (1E) | SIGNED | 2 | RCAEPERIODSWITHDATA | Valid for goal mode, only. For report classes, the highest period number that was found in use since workload reporting was initialized. This number can grow over the time up to RCAEPer#. For service classes, RcaePeriodsWithData has the same value as RCAEPer#. |
| 32 | (20) | BITSTRING | 8 | RCAECMCI | Mixed class indication token that represents the time when a service class associated with the report class contributing data to the report class last changed. To determine whether this report class is heterogeneous, this token must be compared with RCAAINTI of the previous call to IWMRCOLL. If RCAECMCI is smaller than RCAAINTI, the report class is homogeneous for this collection interval |
| 40 | (28) | CHARACTER | 4 | RCAEHRS3 | Reserved |
| 40 | (28) | X'2C' | 0 | RCAE_LEN | "*-RCAE" |

| Offsets | | | | | |
|---------|-----|------------|-----|--------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | RCAESCLS | RCAE - An entry in the service classes served array |
| 0 | (0) | SIGNED | 2 | RCAESCSN | Index of service class being served |
| 2 | (2) | CHARACTER | 2 | RCAERS1 | Reserved |
| 4 | (4) | SIGNED | 4 | RCAESCS# | Number of times an address space running with this service class (RCAECLX) served service class (RCAESCSN). |
| 4 | (4) | X'8' | 0 | RCAESCLS_LEN | "*-RCAESCLS" |

| Offsets | | | | | |
|---------|------|------------|-----|--------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | RCAEIHDR | RCAE - period header |
| 0 | (0) | SIGNED | 1 | RCAEPerI | Period number |
| 1 | (1) | CHARACTER | 1 | RCAEIRSV | Reserved |
| 2 | (2) | CHARACTER | 2 | RCAECOMP (0) | Compatibility mode data |
| 2 | (2) | SIGNED | 1 | RCAEDMN | Domain level |
| 3 | (3) | SIGNED | 1 | RCAETSGN | Timeslice group number |
| 4 | (4) | SIGNED | 2 | RCAEIRLN | Length of resource data section (RCAERESC) |
| 6 | (6) | CHARACTER | 2 | RCAEIRS1 | Reserved |
| 8 | (8) | SIGNED | 4 | RCAEIROF | Offset from RCAEIHDR to resource data. Zero indicates there is no resource data for this period |
| 12 | (C) | SIGNED | 2 | RCAEIPLN | Length of response time section (RCAERST) |
| 14 | (E) | CHARACTER | 2 | RCAEIRS2 | Reserved |
| 16 | (10) | SIGNED | 4 | RCAEIPOF | Offset from RCAEIHDR to response time data. Zero indicates that there is no response time data available for this period |
| 20 | (14) | SIGNED | 2 | RCAEIGLN | Length of general execution delay section (RCAEDELA) |

| Offsets | | | | | |
|---------|------|------------|-----|--------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 22 | (16) | CHARACTER | 2 | RCAEIRS3 | Reserved |
| 24 | (18) | SIGNED | 4 | RCAEIGOF | Offset from RCAEIHDR to general execution delay data. Zero if no general execution delay data is available for this period |
| 28 | (1C) | SIGNED | 2 | RCAEID# | Number of entries in the response time distribution section (RCAEDIST). Zero if there is no distribution for this period. |
| 30 | (1E) | SIGNED | 2 | RCAEIDLN | Length of response time distribution section (RCAEDIST) |
| 32 | (20) | SIGNED | 4 | RCAEIDOF | Offset from RCAEIHDR to response time distribution data. Zero when in compatibility mode. When in goal mode, this field will be zero for report classes, when there are no response time goals specified, or when no response time data is available for this period |
| 36 | (24) | SIGNED | 2 | RCAEIS# | Number of entries in the subsystem work manager delay section (RCAEEELA). Zero if there are no subsystem work manager delays for this period. |
| 38 | (26) | SIGNED | 2 | RCAEISLN | Length of subsystem work manager delay section (RCAEEELA) |
| 40 | (28) | SIGNED | 4 | RCAEISOF | Offset from RCAEIHDR to subsystem work manager delay data. Zero indicates there is no subsystem work manager delay data for this period |
| 44 | (2C) | SIGNED | 4 | RCAEINXP | Offset from RCAEIHDR to next period's data or zero if last period |
| 48 | (30) | SIGNED | 2 | RCAEPLSC | Index of the service class that last contributed to this report class. For homogeneous report class periods, this service class period's goal must be used to format the response time distribution for ended transactions reported in this report class. Zero for a service class entry. |
| 50 | (32) | SIGNED | 2 | RCAEIRS4 | Reserved |
| 52 | (34) | BITSTRING | 8 | RCAEPMCI | Mixed class indication token that represents the time when RCAEPLSC last changed. To determine whether this report class period is heterogeneous over the reporting interval, this token must be compared with RcaalNTI from the IWMRCOLL invocation at the start of the interval. If RcaePMCI is smaller than RcaalNTI, the report class period is homogenous for this collection interval. |
| 52 | (34) | X'3C' | 0 | RCAEIHDR_LEN | **-RCAEIHDR" |

| Offsets | | | | | |
|---------|------|------------|-----|--------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | RCAERESC | RCAE - resource data. All service units are weighted by the coefficients specified in RCAASCO for compatibility mode or the active policy in goal mode |
| 0 | (0) | CHARACTER | 8 | RCAESRV (0) | Total service units for period |
| 0 | (0) | SIGNED | 4 | RCAESRV1 | Total service units for period - word 1 |
| 4 | (4) | SIGNED | 4 | RCAESRV2 | Total service units for period - word 2 |
| 8 | (8) | CHARACTER | 8 | RCAECPU (0) | Total CPU service units |
| 8 | (8) | SIGNED | 4 | RCAECPU1 | Total CPU service units - word 1 |
| 12 | (C) | SIGNED | 4 | RCAECPU2 | Total CPU service units - word 2 |
| 16 | (10) | CHARACTER | 8 | RCAEIOC (0) | Total I/O service units |
| 16 | (10) | SIGNED | 4 | RCAEIOC1 | Total I/O service units - word 1 |
| 20 | (14) | SIGNED | 4 | RCAEIOC2 | Total I/O service units - word 2 |
| 24 | (18) | CHARACTER | 8 | RCAEMSO (0) | Total MSO service units |
| 24 | (18) | SIGNED | 4 | RCAEMSO1 | Total MSO service units - word 1 |
| 28 | (1C) | SIGNED | 4 | RCAEMSO2 | Total MSO service units - word 2 |
| 32 | (20) | CHARACTER | 8 | RCAESRB (0) | Total SRB service units |
| 32 | (20) | SIGNED | 4 | RCAESRB1 | Total SRB service units - word 1 |
| 36 | (24) | SIGNED | 4 | RCAESRB2 | Total SRB service units - word 2 |
| 40 | (28) | CHARACTER | 8 | RCAEPIR (0) | Total page-ins count |
| 40 | (28) | SIGNED | 4 | RCAEPIR1 | Total page-ins count - word 1 |
| 44 | (2C) | SIGNED | 4 | RCAEPIR2 | Total page-ins count - word 2 |
| 48 | (30) | CHARACTER | 8 | RCAEHSP (0) | Total hyperspace page-ins count - word 2 |
| 48 | (30) | SIGNED | 4 | RCAEHSP1 | Total hyperspace page-ins count - word 1 |
| 52 | (34) | SIGNED | 4 | RCAEHSP2 | Total hyperspace page-ins count - word 2 |
| 56 | (38) | CHARACTER | 8 | RCAEBPIR (0) | Total block page-ins from aux |

IWMWRCAA Map

| Offsets | | | | | |
|---------|------|------------|-----|--------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 56 | (38) | SIGNED | 4 | RCAEBPI1 | Total block page-ins from aux - word 1 |
| 60 | (3C) | SIGNED | 4 | RCAEBPI2 | Total block page-ins from aux - word 2 |
| 64 | (40) | CHARACTER | 8 | RCAEPIE (0) | Total page-ins from expanded count |
| 64 | (40) | SIGNED | 4 | RCAEPIE1 | Total page-ins from expanded count - word 1 |
| 68 | (44) | SIGNED | 4 | RCAEPIE2 | Total page-ins from expanded count - word 2 |
| 72 | (48) | CHARACTER | 8 | RCAEBPIE (0) | Total block page-ins from expanded count |
| 72 | (48) | SIGNED | 4 | RCAEBPE1 | Total block page-ins from expanded count - word 1 |
| 76 | (4C) | SIGNED | 4 | RCAEBPE2 | Total block page-ins from expanded count - word 2 |
| 80 | (50) | CHARACTER | 8 | RCAEBKIA (0) | Total aux blocks paged in |
| 80 | (50) | SIGNED | 4 | RCAEBKA1 | Total aux blocks paged in - word 1 |
| 84 | (54) | SIGNED | 4 | RCAEBKA2 | Total aux blocks paged in - word 2 |
| 88 | (58) | CHARACTER | 8 | RCAEBKIE (0) | Total expanded blocks paged in |
| 88 | (58) | SIGNED | 4 | RCAEBKE1 | Total expanded blocks paged in - word 1 |
| 92 | (5C) | SIGNED | 4 | RCAEBKE2 | Total expanded blocks paged in - word 2 |
| 96 | (60) | CHARACTER | 8 | RCAEPRS (0) | Total page residency time (in 1024 microsecond units) |
| 96 | (60) | SIGNED | 4 | RCAEPRS1 | Total page residency time - word 1 |
| 100 | (64) | SIGNED | 4 | RCAEPRS2 | Total page residency time - word 2 |
| 104 | (68) | CHARACTER | 8 | RCAEERS (0) | Total expanded page residency time (in 1024 microsecond units) |
| 104 | (68) | SIGNED | 4 | RCAEERS1 | Total expanded page residency time - word 1 |
| 108 | (6C) | SIGNED | 4 | RCAEERS2 | Total expanded page residency time - word 2 |
| 112 | (70) | CHARACTER | 8 | RCAETRR (0) | Total in-storage residency time (in 1024 microsecond units) |
| 112 | (70) | SIGNED | 4 | RCAETRR1 | Total in-storage residency time - word 1 |
| 116 | (74) | SIGNED | 4 | RCAETRR2 | Total in-storage residency time - word 2 |
| 120 | (78) | CHARACTER | 8 | RCAETAT (0) | Total transaction active time (in 1024 microsecond units) |
| 120 | (78) | SIGNED | 4 | RCAETAT1 | Total transaction active time - word 1 |
| 124 | (7C) | SIGNED | 4 | RCAETAT2 | Total transaction active time - word 2 |
| 128 | (80) | SIGNED | 4 | RCAERCT | Total RCT time (in microsecond units) |
| 132 | (84) | SIGNED | 4 | RCAEIIT | Total I/O interrupt time (in microsecond units) |
| 136 | (88) | SIGNED | 4 | RCAEHST | Total hiperspace service time (in microsecond units) |
| 140 | (8C) | SIGNED | 4 | RCAESWC | Total swap count |
| 144 | (90) | SIGNED | 4 | RCAECRMS | Total hiperspace eso read miss count |
| 148 | (94) | CHARACTER | 8 | RCAESPPI (0) | Total shared page-ins from aux count |
| 148 | (94) | SIGNED | 4 | RCAESPPI1 | Total shared page-ins from aux count - word 1 |
| 152 | (98) | SIGNED | 4 | RCAESPPI2 | Total shared page-ins from aux count - word 2 |
| 156 | (9C) | CHARACTER | 8 | RCAESPEI (0) | Total shared page-ins from expanded count |
| 156 | (9C) | SIGNED | 4 | RCAESPE1 | Total shared page-ins from expanded count - word 1 |
| 160 | (A0) | SIGNED | 4 | RCAESPE2 | Total shared page-ins from expanded count - word 2 |
| 164 | (A4) | CHARACTER | 8 | RCAESPRS (0) | Total shared page residency time (in 1024 microsecond units) |
| 164 | (A4) | SIGNED | 4 | RCAESPRS1 | Total shared page residency time - word 1 |
| 168 | (A8) | SIGNED | 4 | RCAESPRS2 | Total shared page residency time - word 2 |
| 172 | (AC) | CHARACTER | 8 | RCAEIOCT (0) | Total DASD I/O connect time in 128 microsecond units |
| 172 | (AC) | SIGNED | 4 | RCAEIOCT1 | word 1 |
| 176 | (B0) | SIGNED | 4 | RCAEIOCT2 | word 2 |
| 180 | (B4) | CHARACTER | 8 | RCAEIOWT (0) | Total DASD I/O wait time (Queue time + Pending time in 128 microsecond units) Note: Does not include IOS queue time. |
| 180 | (B4) | SIGNED | 4 | RCAEIOWT1 | word 1 |
| 184 | (B8) | SIGNED | 4 | RCAEIOWT2 | word 2 |
| 188 | (BC) | SIGNED | 4 | RCAEIORC | Total DASD I/O count. This can be used with fields RCAEIOCT, RCAEIOWT, RCAEIOST to determine average DASD response time for the period. |
| 192 | (C0) | CHARACTER | 4 | RCAERRS1 | Reserved |
| 196 | (C4) | CHARACTER | 8 | RCAEIODT (0) | Total DASD I/O disconnect time in 128 microsecond units |
| 196 | (C4) | SIGNED | 4 | RCAEIODT1 | word 1 |
| 200 | (C8) | SIGNED | 4 | RCAEIODT2 | word 2 |
| 204 | (CC) | CHARACTER | 8 | RCAEIOST (0) | Total DASD IOS queue time in 128 microsecond units |
| 204 | (CC) | SIGNED | 4 | RCAEIOST1 | RCAEIOST word 1 |
| 208 | (D0) | SIGNED | 4 | RCAEIOST2 | RCAEIOST word 2 |
| 212 | (D4) | CHARACTER | 8 | | Reserved |
| 220 | (DC) | CHARACTER | 8 | RCAEIEAT (0) | Independent enclave total transaction active time (in 1024 microsecond units) for enclaves that originated on this system. |
| 220 | (DC) | SIGNED | 4 | RCAEIEA1 | Independent enclave total transaction active time - word 1 |
| 224 | (E0) | SIGNED | 4 | RCAEIEA2 | Independent enclave total transaction active time - word 2 |

| Offsets | | | | | |
|---------|------|------------|-----|----------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 228 | (E4) | CHARACTER | 8 | RCAEXEAT (0) | Exported enclave total transaction active time (in 1024 microsecond units). |
| 228 | (E4) | SIGNED | 4 | RCAEXEA1 | Exported enclave total transaction active time - word 1 |
| 232 | (E8) | SIGNED | 4 | RCAEXEA2 | Exported enclave total transaction active time - word 2 |
| 236 | (EC) | CHARACTER | 8 | RCAEFEAT (0) | Foreign enclave total transaction active time (in 1024 microsecond units). |
| 236 | (EC) | SIGNED | 4 | RCAEFEA1 | Foreign enclave total transaction active time - word 1 |
| 240 | (F0) | SIGNED | 4 | RCAEFEA2 | Foreign enclave total transaction active time - word 2 |
| 244 | (F4) | CHARACTER | 8 | RCAEENQCPUTIMECONSUMED (0) | CPU time consumed while dispatching priority was temporarily raised because the work held a resource that other work needed. 1.024 milliseconds unit |
| 244 | (F4) | SIGNED | 4 | RCAEENQCPUTIMECONSUMED1 | - word 1 |
| 248 | (F8) | SIGNED | 4 | RCAEENQCPUTIMECONSUMED2 | - word 2 |
| 252 | (FC) | CHARACTER | 32 | | Reserved |
| 252 | (FC) | X'11C' | 0 | RCAERESC_LEN | **RCAERESC" |

| Offsets | | | | | |
|---------|------|------------|-----|-------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | RCAERST | RCAE - response time data |
| 0 | (0) | SIGNED | 4 | RCAERCP | Count of transaction completions for this period. In compatibility mode this is the TSO, APPC, batch, etc. transactions. In goal mode, this field also includes transaction completions reported by subsystem work managers via the IWMRPT service |
| 4 | (4) | SIGNED | 4 | RCAEARCP | Count of transactions that completed abnormally as reported by subsystem work managers. This value is not part of RCAERCP and should not be used for response time calculations. |
| 8 | (8) | SIGNED | 4 | RCAENCP | Count of times an execution phase has completed by the subsystem work managers via the IWMNTFY service. |
| 12 | (C) | SIGNED | 4 | RCAEANCP | Count of transactions that completed their execution phase abnormally as reported by subsystem work manager. This value is not part of RCANCP and should not be used for execution response time calculations |
| 16 | (10) | CHARACTER | 8 | RCAETET (0) | Total transaction elapsed time (in 1024 microsecond units) |
| 16 | (10) | SIGNED | 4 | RCAETET1 | Total transaction elapsed time - word 1 |
| 20 | (14) | SIGNED | 4 | RCAETET2 | Total transaction elapsed time - word 2 |
| 24 | (18) | CHARACTER | 8 | RCAEXET (0) | Total transaction execution time - (in 1024 microsecond units). Available in goal mode only |
| 24 | (18) | SIGNED | 4 | RCAEXET1 | Total transaction execution time - word 1 |
| 28 | (1C) | SIGNED | 4 | RCAEXET2 | Total transaction execution time - word 2 |
| 32 | (20) | CHARACTER | 8 | RCAESTT (0) | Total system time (in 1024 microsecond units). Available in compatibility mode only |
| 32 | (20) | SIGNED | 4 | RCAESTT1 | Total system time - word 1 |
| 36 | (24) | SIGNED | 4 | RCAESTT2 | Total system time - word 2 |
| 40 | (28) | CHARACTER | 8 | RCAEETS (0) | Sum of transaction elapsed times squared (1024 microsec) |
| 40 | (28) | SIGNED | 4 | RCAEETS1 | Sum of transaction elapsed times squared - word 1 |
| 44 | (2C) | SIGNED | 4 | RCAEETS2 | Sum of transaction elapsed times squared - word 2 |
| 48 | (30) | CHARACTER | 8 | RCAEQDT (0) | Total queue delay time. For batch jobs this is the time jobs spent on the job queue while eligible to run on some system. In other words this is the time jobs spent waiting for an initiator. For TSO users, this time can be a portion of the LOGON process. For APPC this is the time an APPC request spends on an APPC queue. (1024 microsec) |
| 48 | (30) | SIGNED | 4 | RCAEQDT1 | RCAEQDT Word 1 |
| 52 | (34) | SIGNED | 4 | RCAEQDT2 | RCAEQDT Word 2 |
| 56 | (38) | CHARACTER | 8 | RCAEADT (0) | Total time batch jobs were ineligible to run because a resource the job had affinity to was unavailable. Only applies to batch work. Zero for other work types. (1024 microsec) |
| 56 | (38) | SIGNED | 4 | RCAEADT1 | RCAEADT word 1 |

IWMWRCAA Map

| Offsets | | | | | |
|---------|------|------------|-----|-------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 60 | (3C) | SIGNED | 4 | RCAEADT2 | RCAEADT word 2 |
| 64 | (40) | CHARACTER | 8 | RCAECVT (0) | Total time batch jobs spent in JCL conversion. Only applies to batch work. Zero for other work types. (1024 microsec) |
| 64 | (40) | SIGNED | 4 | RCAECVT1 | RCAECVT word 1 |
| 68 | (44) | SIGNED | 4 | RCAECVT2 | RCAECVT word 2 |
| 72 | (48) | CHARACTER | 8 | RCAEIQT (0) | Total time batch jobs spend on job queue (after JCL conversion) while ineligible to run on any system for reasons other than resource affinities. For example this time can include operator hold of a job, delays due to duplicate job names, delays due to job class limits. Only applies to batch work. Zero for other work types. (1024 microsec) |
| 72 | (48) | SIGNED | 4 | RCAEIQT1 | RCAEIQT word 1 |
| 76 | (4C) | SIGNED | 4 | RCAEIQT2 | RCAEIQT word 2 |
| 80 | (50) | CHARACTER | 8 | | Reserved |
| 80 | (50) | X'58' | 0 | RCAERST_LEN | "*-RCAERST" |

| Offsets | | | | | |
|---------|-----|------------|-----|--------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | RCAEDIST | RCAE - response time distribution array |
| 0 | (0) | SIGNED | 4 | RCAEDENT | An entry in the RCAE response time distribution array. Each entry in the array contains the number of transactions that completed in the time period represented by that entry. When used with the response time distribution bucket mapping (RCAABMAP), monitors can construct a distribution of completions verses goals specified. |
| 0 | (0) | X'4' | 0 | RCAEDIST_LEN | "*-RCAEDIST" |

| Offsets | | | | | |
|---------|------|------------|-----|--------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | RCAEDELA | RCAE - general execution delay data |
| 0 | (0) | CHARACTER | 8 | RCAEVELC (0) | Execution velocity data |
| 0 | (0) | SIGNED | 4 | RCAECUSE | CPU using samples |
| 4 | (4) | SIGNED | 4 | RCAETOTD | Total delay samples used in SRM's execution velocity calculation |
| 8 | (8) | CHARACTER | 48 | RCAEEDLA (0) | General execution delays included in RCAETOTD. Each dispatchable unit of work sampled can increase one of the CPU or paging delay samples |
| 8 | (8) | SIGNED | 4 | RCAECDEL | CPU delay. A TCB or SRB is waiting to be dispatched (other than the first in-line behind sampler) or a TCB is waiting for local lock. |
| 12 | (C) | SIGNED | 4 | RCAECCAP | CPU capping delay. A TCB or SRB is marked non-dispatchable because a resource group maximum is being enforced. Note that RCAECCAP is NOT a subset of RCAECDEL. Only valid in goal mode. |
| 16 | (10) | SIGNED | 4 | RCAESWIN | Swap-in delay. Swap-in has started, but not completed |
| 20 | (14) | SIGNED | 4 | RCAEDMPL | MPL delay. Ready, but swap-in has not started |
| 24 | (18) | SIGNED | 4 | RCAEAPRV | Aux page from private |
| 28 | (1C) | SIGNED | 4 | RCAEACOM | Aux page from common |
| 32 | (20) | SIGNED | 4 | RCAEXM | Aux page from cross memory |
| 36 | (24) | SIGNED | 4 | RCAEVIO | Aux page from vio |
| 40 | (28) | SIGNED | 4 | RCAEHSPC | Aux page from standard hiperspaces |
| 44 | (2C) | SIGNED | 4 | RCAECHS | Aux page from eso hiperspaces. Valid in goal mode only. |
| 48 | (30) | SIGNED | 4 | RCAEASPD | Shared paging from aux delay |
| 52 | (34) | CHARACTER | 4 | RCAEDRS1 | Reserved |
| 56 | (38) | SIGNED | 4 | RCAEUNKN | Unknown. Dispatchable unit or address space is waiting, but none of the above reasons apply. These samples are not included in RCAETOTD |
| 60 | (3C) | SIGNED | 4 | RCAEIDLE | Idle. Work is in STIMER wait, TSO terminal wait, APPC wait, or is an initiator waiting for work. These samples are not included in RCAETOTD |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-----------------------------|--|
| Dec | Hex | | | | |
| 64 | (40) | SIGNED | 4 | RCAEPDEL | Resource group capping delay. Group maximum is being enforced for work in this service class. This delay only accounts for address spaces in the service class that are currently swapped in. Only valid in goal mode. These samples are not included in RCAETOTD |
| 68 | (44) | SIGNED | 4 | RCAEPQUI | Quiesce delay. Some work in this service class has been reset via the RESET xxx, QUIESCE command. Only valid in goal mode. These samples are not included in RCAETOTD |
| 72 | (48) | SIGNED | 4 | RCAESAC | Sampled Address space count. Number of address spaces that contributed delay and using samples to this service class. These samples are not included in RCAETOTD. Also included are enclaves that contributed delay and using samples |
| 76 | (4C) | SIGNED | 4 | RCAETOTU | Total usings. Velocity should be calculated as $RCAETOTU/(RCAETOTD+RCAETOTU)$ |
| 80 | (50) | SIGNED | 4 | RCAEIOU | Total I/O usings. These are included in RCAETOTU. Only non-paging DASD I/O can contribute to I/O usings |
| 84 | (54) | CHARACTER | 28 | RCAEEDL2 (0) | Second set of execution delays included in RCAETOTD. |
| 84 | (54) | SIGNED | 4 | RCAEIOD | DASD I/O delay samples |
| 88 | (58) | SIGNED | 4 | RCAEQ | Queue delay samples. Work is waiting for a server. |
| 92 | (5C) | SIGNED | 4 | RCAESPRV | Server private area paging delay samples. |
| 96 | (60) | SIGNED | 4 | RCAESVIO | Server space VIO paging delay samples. |
| 100 | (64) | SIGNED | 4 | RCAESHSP | Server hiperspace paging delay samples. |
| 104 | (68) | SIGNED | 4 | RCAESMPL | Server MPL delay samples |
| 108 | (6C) | SIGNED | 4 | RCAESSWI | Server swap-in delay samples. |
| 112 | (70) | CHARACTER | 8 | RCAETOTS (0) | Total execution samples. It is the sum of RCAETOTU, RCAETOTD, RCAEUNKN, RCAEIDLE. Also always includes I/O using/delay samples whether or not I/O samples are included in RCAETOTU/RCAETOTD |
| 112 | (70) | SIGNED | 4 | RCAETOTS1 | RCAETOTS Word 1 |
| 116 | (74) | SIGNED | 4 | RCAETOTS2 | RCAETOTS Word 2 |
| 120 | (78) | SIGNED | 4 | RCAENDIO | Non-DASD I/O using or delay samples. |
| 124 | (7C) | SIGNED | 4 | RCAETOTDQ | Total delay samples always including batch queue delay. For service classes that contain batch jobs that were not run in WLM managed initiators the batch queue delay samples are derived from the measured batch queue delay time. For service classes that contain only jobs that ran in WLM managed initiators this value is the same as RCEATOTD. RCAETOTDQ can be used as a migration aid to determine what a batch service class period's velocity will be if all its jobs are run in WLM managed initiators |
| 128 | (80) | SIGNED | 4 | RCAECRYPTOCAMU | CAM crypto using samples. A task was found executing on a Cryptographic Asynchronous Message Processor (CAP). |
| 132 | (84) | SIGNED | 4 | RCAECRYPTOCAMD | CAM crypto delay samples. A task was found waiting for a Cryptographic Asynchronous Message Processor (CAP) |
| 136 | (88) | SIGNED | 4 | RCAECRYPTOAPU | AP crypto using samples. A task was found executing on a PCI Cryptographic Coprocessor (PCICC). |
| 140 | (8C) | SIGNED | 4 | RCAECRYPTOAPD | AP crypto delay samples. A task was found waiting for a PCI Cryptographic Coprocessor (PCICC). |
| 144 | (90) | SIGNED | 4 | RCAEFEATUREQD | Feature queue delay samples. A task or srb was found waiting on a processor feature queue associated with a CPU. This is a subset of RCAECDL. Note, RCAECUSE includes feature queue using samples |
| 148 | (94) | SIGNED | 4 | RCAERESOURCECONTENTIONDELAY | Contention delay samples. One sample is accumulated for each resource held. Only resource holders identified via IWMCNTN are reported. |
| 152 | (98) | SIGNED | 4 | RCAERESOURCECONTENTIONUSING | |

IWMWRCAA Map

| Offsets | | | | | |
|---------|------|------------|-----|--------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| | | | | | Contention using samples. One sample is accumulated for each resource in use. Only resource users identified via IWMCNTN are reported. |
| 156 | (9C) | CHARACTER | 8 | RCAEDRS3 | Reserved |
| 156 | (9C) | X'A4' | 0 | RCAEDELA_LEN | **_RCAEDELA" |

| Offsets | | | | | |
|---------|------|------------------------|-----|--------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | RCAEEELA | RCAE - Subsystem work manager delays |
| 0 | (0) | CHARACTER | 132 | RCAEEENT (0) | An entry in the subsystem work manager delay array |
| 0 | (0) | CHARACTER | 4 | RCAESTYP | Subsystem type, as used in the classification rules specified in the WLM administrative application. The subsystem's documentation should explain the meaning that the product attributes to the various states |
| 4 | (4) | BITSTRING 1... | 1 | RCAEEFLG (0) | Flags |
| | | | | RCAEDBE | "X'80" Represents states sampled in the begin to end phase of a transaction |
| | | .1.. | | RCAEEXEC | "X'40" Represents states sampled in the execution phase of a transaction |
| | | ..11 1111 | | RCAESRS1 | "X'3F" Reserved |
| 5 | (5) | CHARACTER | 3 | RCAESRS2 | Reserved |
| 8 | (8) | SIGNED | 4 | RCAEES# | Total number of transaction states sampled in the work phase specified by RCAEEFLG |
| 12 | (C) | SIGNED | 4 | RCAEACTV | Total number of active state samples. Active indicates that there is a program executing on behalf of the work request, from the perspective of the work manager. This does not mean that the program is active from the base control program's perspective |
| 16 | (10) | SIGNED | 4 | RCAERDY | Total number of ready state samples. Ready indicates that there is a program ready to execute on behalf of the work request described by the monitoring environment, but the work manager has given priority to another work request |
| 20 | (14) | SIGNED | 4 | RCAEIDL | Total number of idle state samples. This indicates the number of times the work manager see a transaction as idle. |
| 24 | (18) | SIGNED | 4 | RCAEWLOK | Total number of waiting for lock state samples. |
| 28 | (1C) | SIGNED | 4 | RCAEWIO | Total number of waiting for I/O state samples. Waiting for I/O indicates that the work manager is waiting for an activity related to an I/O request. This may be an actual I/O operation or some other function associated with the I/O request |
| 32 | (20) | SIGNED | 4 | RCAEWCON | Total number of waiting for conversation state samples. Waiting for conversation may have been used in conjunction with the WLM service IWMMSWCH to identify where the recipient of the conversation is located. In this case, only the switched state will be recorded. |
| 36 | (24) | SIGNED | 4 | RCAEWDST | Total number of waiting for distributed request state samples. Waiting for distributed request indicates a high level that some function or data must be routed prior to resumption of the work request. This is to be contrasted with waiting for conversation, which is a low level view of the precise resource that is needed. A distributed request could involve waiting on a conversation as part of its processing |
| 40 | (28) | SIGNED | 4 | RCAEWSL | Waiting for a session to be established locally. ie. on the current MVS image |
| 44 | (2C) | SIGNED | 4 | RCAEWSN | Waiting for a session to be established somewhere in the network |
| 48 | (30) | SIGNED | 4 | RCAEWSS | Waiting for a session to be established somewhere in the sysplex |
| 52 | (34) | SIGNED | 4 | RCAEWTMR | Waiting for a timer |
| 56 | (38) | SIGNED | 4 | RCAEWO | Waiting for another product |
| 60 | (3C) | SIGNED | 4 | RCAEWMSC | Waiting for unidentified resource, possibly among another more specific category, but which may not be readily determined |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|--|
| Dec | Hex | | | | |
| 64 | (40) | SIGNED | 4 | RCAESSL | State representing transactions for which there are logical continuations on this MVS image. Subsystem work managers might set this state when they function ship a transaction to another component within the same MVS image |
| 68 | (44) | SIGNED | 4 | RCAESSS | State representing transactions for which there are logical continuations on another MVS image in the sysplex. Subsystem work managers might set this state when they function ship a transaction to another component on another MVS image within the sysplex |
| 72 | (48) | SIGNED | 4 | RCAESSN | State representing transactions for which there are logical continuations somewhere within the network. Subsystem work managers might set this state when they function ship a transaction to another component within the network |
| 76 | (4C) | SIGNED | 4 | RCAEBPMI | Reserved |
| 80 | (50) | SIGNED | 4 | RCAEBPMC | Reserved |
| 84 | (54) | SIGNED | 4 | RCAEBPCM | Reserved |
| 88 | (58) | SIGNED | 4 | RCAECFMI | Reserved |
| 92 | (5C) | SIGNED | 4 | RCAEWNL | Waiting for new latch |
| 96 | (60) | SIGNED | 4 | RCAEACTA | Total number of active application state samples |
| 100 | (64) | SIGNED | 4 | RCAEWSSL | Total number of waiting for SSL thread samples |
| 104 | (68) | SIGNED | 4 | RCAEWRET | Total number of waiting for regular thread samples |
| 108 | (6C) | SIGNED | 4 | RCAEWREW | Total number of waiting for registration worktable samples |
| 112 | (70) | SIGNED | 4 | RCAETYP1 | Total number of waiting for TYPE 1 samples |
| 116 | (74) | SIGNED | 4 | RCAETYP2 | Total number of waiting for TYPE 2 samples |
| 120 | (78) | SIGNED | 4 | RCAETYP3 | Total number of waiting for TYPE 3 samples |
| 124 | (7C) | SIGNED | 4 | RCAETYP4 | Total number of waiting for TYPE 4 samples |
| 128 | (80) | SIGNED | 4 | RCAETYP5 | Total number of waiting for TYPE 5 samples |
| 132 | (84) | SIGNED | 4 | RCAETYP6 | Total number of waiting for TYPE 6 samples |
| 136 | (88) | SIGNED | 4 | RCAETYP7 | Total number of waiting for TYPE 7 samples |
| 140 | (8C) | SIGNED | 4 | RCAETYP8 | Total number of waiting for TYPE 8 samples |
| 144 | (90) | SIGNED | 4 | RCAETYP9 | Total number of waiting for TYPE 9 samples |
| 148 | (94) | SIGNED | 4 | RCAETY10 | Total number of waiting for TYPE 10 samples |
| 152 | (98) | SIGNED | 4 | RCAETY11 | Total number of waiting for TYPE 11 samples |
| 156 | (9C) | SIGNED | 4 | RCAETY12 | Total number of waiting for TYPE 12 samples |
| 160 | (A0) | SIGNED | 4 | RCAETY13 | Total number of waiting for TYPE 13 samples |
| 164 | (A4) | SIGNED | 4 | RCAETY14 | Total number of waiting for TYPE 14 samples |
| 168 | (A8) | SIGNED | 4 | RCAETY15 | Total number of waiting for TYPE 15 samples |
| 168 | (A8) | X'C3C1C1' | 0 | RCAANAME | "C'RCAA" 'RCAA' ACRONYM |

Comment

The RCAAVRID and RCAEVRID must be changed if new fields are added to any area in the RQAA output area (see APAR OW11082). This is to keep vendor products aware of changes to the output area.

RQAA_VERSION4 - RQAA_VERSION8 are reserved.

End of Comment

| | | | | | |
|-----|------|------|---|----------------|----------------------------------|
| 168 | (A8) | X'1' | 0 | RCAA_VERSION1 | "1" RCAA version 1. 1=HBB5510 |
| 168 | (A8) | X'2' | 0 | RCAA_VERSION2 | "2" RCAA version 2. 2=HBB5520 |
| 168 | (A8) | X'3' | 0 | RCAA_VERSION3 | "3" RCAA version 3. 3=HBB6603 |
| 168 | (A8) | X'4' | 0 | RCAA_VERSION4 | "4" RCAA version 4. 4=JBB6604 |
| 168 | (A8) | X'9' | 0 | RCAA_VERSION9 | "9" RCAA version 9. 9=JBB6609 |
| 168 | (A8) | X'C' | 0 | RCAA_VERSION12 | "12" RCAA version 12. 12=HBB7705 |
| 168 | (A8) | X'D' | 0 | RCAA_VERSION13 | "13" RCAA version 13. 13=OW51848 |
| 168 | (A8) | X'E' | 0 | RCAA_VERSION14 | "14" RCAA version 14. 14=HBB7707 |

IWMWRCAA Cross Reference

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|----------------|---|
| Dec | Hex | | | | |
| 168 | (A8) | X'E' | 0 | RCAAVRID | "14" Current version level |
| 168 | (A8) | X'1' | 0 | RCAA_LEVEL1 | "1" RCAA level. 1=Crypto Reporting, Multi period report classes, Work manager delays for Enclaves |
| 168 | (A8) | X'1' | 0 | RCAALEVL | "1" Current level |
| 168 | (A8) | X'C3C1C5' | 0 | RCAENAME | "C'RCAE'" 'RCAE' ACRONYM |
| 168 | (A8) | X'1' | 0 | RCAE_VERSION1 | "1" RCAE version 1. 1=HBB5510 |
| 168 | (A8) | X'2' | 0 | RCAE_VERSION2 | "2" RCAE version 2. 2=HBB5520 |
| 168 | (A8) | X'3' | 0 | RCAE_VERSION3 | "3" RCAE version 3. 3=HBB6603 |
| 168 | (A8) | X'4' | 0 | RCAE_VERSION4 | "4" RCAE version 4. 4=JBB6604 |
| 168 | (A8) | X'9' | 0 | RCAE_VERSION9 | "9" RCAE version 9. 9=JBB6609 |
| 168 | (A8) | X'C' | 0 | RCAE_VERSION12 | "12" RCAE version 12. 12=HBB7705 |
| 168 | (A8) | X'D' | 0 | RCAE_VERSION13 | "13" RCAE version 13. 13=OW51848 |
| 168 | (A8) | X'E' | 0 | RCAE_VERSION14 | "14" RCAE version 14. 14=HBB7707 |
| 168 | (A8) | X'E' | 0 | RCAEVRID | "14" Current version level |
| 264 | (108) | X'108' | 0 | RCAEEELA_LEN | "*-RCAEEELA" |

IWMWRCAA Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------------|------------|-----------|----------------|------------|-----------|
| RCAA | 0 | | RCAAICSX | 0 | |
| RCAA_LEN | 78 | 80 | RCAAINI | 78 | |
| RCAA_LEVEL1 | A8 | 1 | RCAAIPB | 48 | |
| RCAA_VERSION1 | A8 | 1 | RCAAIPC | 40 | |
| RCAA_VERSION12 | A8 | C | RCAAIPi | 44 | |
| RCAA_VERSION13 | A8 | D | RCAAIPM | 4C | |
| RCAA_VERSION14 | A8 | E | RCAAIPS | 3C | |
| RCAA_VERSION2 | A8 | 2 | RCAALEVL | A8 | 1 |
| RCAA_VERSION3 | A8 | 3 | RCAAMODE | 9 | |
| RCAA_VERSION4 | A8 | 4 | RCAANAME | A8 | C3C1C1 |
| RCAA_VERSION9 | A8 | 9 | RCAANTV# | 58 | |
| RCAAACRO | 0 | | RCAANTVL | 54 | |
| RCAABENT | 0 | | RCAAOPT | A | |
| RCAABMAP | 0 | | RCAAovel | 9 | 20 |
| RCAABMAP_LEN | 0 | 4 | RCAAPNAM | 1C | |
| RCAABMP# | 5E | | RCAAPSYS | 34 | |
| RCAABMPL | 5C | | RCAAPTM | 24 | |
| RCAABMPO | 60 | | RCAARCA# | 6E | |
| RCAACINF | 3C | | RCAARCAL | 6C | |
| RCAACLVL | 74 | | RCAARCOF | 70 | |
| RCAACOMP | 9 | 40 | RCAARSV | 9 | 1F |
| RCAAGINF | 1C | | RCAASCA# | 66 | |
| RCAAGOAL | 9 | 80 | RCAASCAL | 64 | |
| RCAAICS | 3E | | RCAASCO | 40 | |
| RCAAICSL | 8 | | RCAASCOF | 68 | |
| RCAAICSM | 4 | | RCAASIZ | 4 | |
| RCAAICSS | 0 | | RCAATMI | C | |
| RCAAICSS_LEN | 8 | C | RCAATMR | 14 | |
| | | | RCAAUId | 2C | |
| | | | RCAAVERS | 8 | |
| | | | RCAAVRID | A8 | E |
| | | | RCAE | 0 | |
| | | | RCAE_LEN | 28 | 2C |
| | | | RCAE_VERSION1 | A8 | 1 |
| | | | RCAE_VERSION12 | | |

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------------|------------|-----------|-------------------------|------------|-----------|
| | A8 | C | RCAEDELA_LEN | 9C | A4 |
| RCAE_VERSION13 | | | RCAEDENT | 0 | |
| | A8 | D | RCAEDIST | 0 | |
| RCAE_VERSION14 | | | RCAEDIST_LEN | 0 | 4 |
| | A8 | E | RCAEDMN | 2 | |
| RCAE_VERSION2 | | | RCAEDMPL | 14 | |
| | A8 | 2 | RCAEDRS1 | 34 | |
| RCAE_VERSION3 | | | RCAEDRS3 | 9C | |
| | A8 | 3 | RCAEEDLA | 8 | |
| RCAE_VERSION4 | | | RCAEEDL2 | 54 | |
| | A8 | 4 | RCAEEELA | 0 | |
| RCAE_VERSION9 | | | RCAEEELA_LEN | 108 | 108 |
| | A8 | 9 | RCAEEENT | 0 | |
| RCAEACOM | 1C | | RCAEEFLG | 4 | |
| RCAEACRO | 0 | | RCAEENQCPUTIMECONSUMED | | |
| RCAEACTA | 60 | | | F4 | |
| RCAEACTV | C | | RCAEENQCPUTIMECONSUMED1 | | |
| RCAEADT | 38 | | | F4 | |
| RCAEADT1 | 38 | | RCAEENQCPUTIMECONSUMED2 | | |
| RCAEADT2 | 3C | | | F8 | |
| RCAEANCP | C | | RCAEERS | 68 | |
| RCAEAPRV | 18 | | RCAEERS1 | 68 | |
| RCAEARCP | 4 | | RCAEERS2 | 6C | |
| RCAEASPD | 30 | | RCAEESS# | 8 | |
| RCAEBKA1 | 50 | | RCAEETS | 28 | |
| RCAEBKA2 | 54 | | RCAEETS1 | 28 | |
| RCAEBKE1 | 58 | | RCAEETS2 | 2C | |
| RCAEBKE2 | 5C | | RCAEEXEC | 4 | 40 |
| RCAEBKIA | 50 | | RCAEFEAT | EC | |
| RCAEBKIE | 58 | | RCAEFEASUREQD | | |
| RCAEBPCM | 54 | | | 90 | |
| RCAEBPE1 | 48 | | RCAEFEA1 | EC | |
| RCAEBPE2 | 4C | | RCAEFEA2 | F0 | |
| RCAEBPIE | 48 | | RCAEHRS1 | 5 | 7 |
| RCAEBPIR | 38 | | RCAEHRS2 | 8 | |
| RCAEBPI1 | 38 | | RCAEHRS3 | 28 | |
| RCAEBPI2 | 3C | | RCAEHSP | 30 | |
| RCAEBPMC | 50 | | RCAEHSPC | 28 | |
| RCAEBPMI | 4C | | RCAEHSP1 | 30 | |
| RCAECCAP | C | | RCAEHSP2 | 34 | |
| RCAECDL | 8 | | RCAEHST | 88 | |
| RCAECFMI | 58 | | RCAEID# | 1C | |
| RCAECHS | 2C | | RCAEIDL | 14 | |
| RCAECLSC | 1C | | RCAEIDLE | 3C | |
| RCAECLX | 6 | | RCAEIDLN | 1E | |
| RCAECMCI | 20 | | RCAEIDOF | 20 | |
| RCAECOMP | 2 | | RCAEIEAT | DC | |
| RCAECPU | 8 | | RCAEIEA1 | DC | |
| RCAECPU1 | 8 | | RCAEIEA2 | E0 | |
| RCAECPU2 | C | | RCAEIGLN | 14 | |
| RCAECRMS | 90 | | RCAEIGOF | 18 | |
| RCAECRYPTOAPD | | | RCAEIHDR | 0 | |
| | 8C | | RCAEIHDR_LEN | 34 | 3C |
| RCAECRYPTOAPU | | | RCAEIIT | 84 | |
| | 88 | | RCAEINXP | 2C | |
| RCAECRYPTOCAMD | | | RCAEIOC | 10 | |
| | 84 | | RCAEIOCT | AC | |
| RCAECRYPTOCAMU | | | RCAEIOCT1 | AC | |
| | 80 | | RCAEIOCT2 | B0 | |
| RCAECUSE | 0 | | RCAEIOC1 | 10 | |
| RCAECVT | 40 | | RCAEIOC2 | 14 | |
| RCAECVT1 | 40 | | RCAEIOD | 54 | |
| RCAECVT2 | 44 | | RCAEIODT | C4 | |
| RCAEDBE | 4 | 80 | RCAEIODT1 | C4 | |
| RCAEDELA | 0 | | RCAEIODT2 | C8 | |

IWMWRCAA Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|-----------------------------|---------------|--------------|--------------|---------------|--------------|
| RCAEIORC | BC | | RCAERRS1 | C0 | |
| RCAEIOST | CC | | RCAERST | 0 | |
| RCAEIOST1 | CC | | RCAERST_LEN | 50 | 58 |
| RCAEIOST2 | D0 | | RCAERS1 | 2 | |
| RCAEIOU | 50 | | RCAESAC | 48 | |
| RCAEIOWT | B4 | | RCAESCL | 5 | 20 |
| RCAEIOWT1 | B4 | | RCAESCL# | 14 | |
| RCAEIOWT2 | B8 | | RCAESCLL | 16 | |
| RCAEIPLN | C | | RCAESCLO | 18 | |
| RCAEIPOF | 10 | | RCAESCLS | 0 | |
| RCAEIQT | 48 | | RCAESCLS_LEN | 4 | 8 |
| RCAEIQT1 | 48 | | RCAESCS# | 4 | |
| RCAEIQT2 | 4C | | RCAESCSN | 0 | |
| RCAEIRLN | 4 | | RCAESHSP | 64 | |
| RCAEIROF | 8 | | RCAESMPL | 68 | |
| RCAEIRSV | 1 | | RCAESPEI | 9C | |
| RCAEIRS1 | 6 | | RCAESPE1 | 9C | |
| RCAEIRS2 | E | | RCAESPE2 | A0 | |
| RCAEIRS3 | 16 | | RCAESPP1 | 94 | |
| RCAEIRS4 | 32 | | RCAESPP2 | 98 | |
| RCAEIS# | 24 | | RCAESPRS | A4 | |
| RCAEISLN | 26 | | RCAESPRS1 | A4 | |
| RCAEISOF | 28 | | RCAESPRS2 | A8 | |
| RCAEMSO | 18 | | RCAESPRV | 5C | |
| RCAEMSO1 | 18 | | RCAESRB | 20 | |
| RCAEMSO2 | 1C | | RCAESRB1 | 20 | |
| RCAENAME | A8 | C3C1C5 | RCAESRB2 | 24 | |
| RCAENCP | 8 | | RCAESRS1 | 4 | 3F |
| RCAENDIO | 78 | | RCAESRS2 | 5 | |
| RCAENIU | 5 | 8 | RCAESRV | 0 | |
| RCAEPDEL | 40 | | RCAESRV1 | 0 | |
| RCAEPPER# | A | | RCAESRV2 | 4 | |
| RCAEPERI | 0 | | RCAESSL | 40 | |
| RCAEPERIODSWITHDATA | | | RCAESSN | 48 | |
| | 1E | | RCAESSS | 44 | |
| RCAEPERL | C | | RCAESSWI | 6C | |
| RCAEPERO | 10 | | RCAESTT | 20 | |
| RCAEPGN | 5 | 80 | RCAESTT1 | 20 | |
| RCAEPIE | 40 | | RCAESTT2 | 24 | |
| RCAEPIE1 | 40 | | RCAESTYP | 0 | |
| RCAEPIE2 | 44 | | RCAESVIO | 60 | |
| RCAEPIR | 28 | | RCAESWC | 8C | |
| RCAEPIR1 | 28 | | RCAESWIN | 10 | |
| RCAEPIR2 | 2C | | RCAETAT | 78 | |
| RCAEPLSC | 30 | | RCAETAT1 | 78 | |
| RCAEPMCI | 34 | | RCAETAT2 | 7C | |
| RCAEPQUI | 44 | | RCAETET | 10 | |
| RCAEPRS | 60 | | RCAETET1 | 10 | |
| RCAEPRS1 | 60 | | RCAETET2 | 14 | |
| RCAEPRS2 | 64 | | RCAETOTD | 4 | |
| RCAEQ | 58 | | RCAETOTDQ | 7C | |
| RCAEQDT | 30 | | RCAETOTS | 70 | |
| RCAEQDT1 | 30 | | RCAETOTS1 | 70 | |
| RCAEQDT2 | 34 | | RCAETOTS2 | 74 | |
| RCAERCL | 5 | 10 | RCAETOTU | 4C | |
| RCAERCP | 0 | | RCAETRR | 70 | |
| RCAERCT | 80 | | RCAETRR1 | 70 | |
| RCAERDY | 10 | | RCAETRR2 | 74 | |
| RCAERESC | 0 | | RCAETSGN | 3 | |
| RCAERESC_LEN | FC | 11C | RCAETYPE | 5 | |
| RCAERESOURCECONTENTIONDELAY | | | RCAETYP1 | 70 | |
| | 94 | | RCAETYP2 | 74 | |
| RCAERESOURCECONTENTIONUSING | | | RCAETYP3 | 78 | |
| | 98 | | RCAETYP4 | 7C | |
| RCAERPGN | 5 | 40 | | | |

| Name | Hex Offset | Hex Value |
|----------|---------------|--------------|
| RCAETYP5 | 80 | |
| RCAETYP6 | 84 | |
| RCAETYP7 | 88 | |
| RCAETYP8 | 8C | |
| RCAETYP9 | 90 | |
| RCAETY10 | 94 | |
| RCAETY11 | 98 | |
| RCAETY12 | 9C | |
| RCAETY13 | A0 | |
| RCAETY14 | A4 | |
| RCAETY15 | A8 | |
| RCAEUNKN | 38 | |
| RCAEVELC | 0 | |
| RCAEVERS | 4 | |
| RCAEVIO | 24 | |
| RCAEVRID | A8 | E |
| RCAEWCON | 20 | |
| RCAEWDST | 24 | |
| RCAEWIO | 1C | |
| RCAEWLOK | 18 | |
| RCAEWMSC | 3C | |
| RCAEWNL | 5C | |
| RCAEWO | 38 | |
| RCAEWRET | 68 | |
| RCAEWREW | 6C | |
| RCAEWSL | 28 | |
| RCAEWSN | 2C | |
| RCAEWSS | 30 | |
| RCAEWSSL | 64 | |
| RCAEWTMR | 34 | |
| RCAEXEAT | E4 | |
| RCAEXEA1 | E4 | |
| RCAEXEA2 | E8 | |
| RCAEXET | 18 | |
| RCAEXET1 | 18 | |
| RCAEXET2 | 1C | |
| RCAEXM | 20 | |

IWMWRQAA Programming Interface information

Programming Interface information

IWMWRQAA

End of Programming Interface information

IWMWRQAA Heading Information

Common Name: IWMRQRY Answer Area
Macro ID: IWMWRQAA
DSECT Name: RQAA, RQAE, RQAESRV, and RQAD
Owning Component: Workload Manager (SCWLM)
Eye-Catcher ID: RQAA
 Offset: 0
 Length: CHAR(4)
Storage Attributes: Subpool: Any
 Key: 0
 Residency: Above 16M line
Size: Determined at run time
Created by: Caller
Pointed to by: Pointed to by the ANSAREA_ADDR field in the IWMRQRY parameter list
Serialization: None
Function: Contains workload activity reporting information

IWMWRQAA Map

| Offsets | | | | | |
|---------|------|------------|-----|--------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | RQAA | Workload Activity Query Answer Area |
| 0 | (0) | CHARACTER | 4 | RQAAACRO | Acronym |
| 4 | (4) | SIGNED | 4 | RQAASIZ | Size of RQAA and all of its subordinate parts |
| 8 | (8) | SIGNED | 1 | RQAAVERS | Version |
| 9 | (9) | BITSTRING | 1 | RQAAMODE (0) | System WLM mode |
| | | 1... | | RQAAGOAL | "X'80" System is in Goal mode |
| | | .1.. | | RQAACOMP | "X'40" System is in Compatibility mode |
| | | ..1. | | RQAAOVEL | "X'20" System is calculating velocity without using I/O delays. |
| | | | | | Valid in goal mode only. |
| | | ...1 1111 | | RQAARSV | "X'1F" Reserved |
| 10 | (A) | CHARACTER | 2 | RQAARSV2 | Reserved |
| 12 | (C) | SIGNED | 2 | RQAASCA# | Number of RQAEs within RQAA |
| 14 | (E) | SIGNED | 2 | RQAASCAL | Length of a RQAE entry |
| 16 | (10) | SIGNED | 4 | RQAASCOF | Offset from RQAA to array of RQAEs |
| 20 | (14) | BITSTRING | 8 | RQAATIM | Local time last sample was acquired by the WLM sampling code. (STCK format) |
| 28 | (1C) | SIGNED | 4 | RQAANTVL | Current sample interval (in milliseconds). This is the frequency with which WLM samples delays. Issuing IWMRQRY more frequently than this may result in identical data |
| 32 | (20) | SIGNED | 2 | RQAASRVA | Number of server address spaces returned (i.e. number of RQAESRV arrays present) |
| 34 | (22) | SIGNED | 2 | RQAASRV# | Number of service class entries within the RQAESRV array. |
| 36 | (24) | SIGNED | 2 | RQAASRVL | Length of an entry in the RQAESRV array. Zero in compatibility mode. |
| 38 | (26) | SIGNED | 2 | RQAARSV1 | Reserved for future use |
| 40 | (28) | CHARACTER | 8 | RQAASTKN | Token that uniquely identifies the state of the system at the time (value in field RQAATIM) the current data was collected. This token gets updated when a SET IPS or ICS is issued while in workload management compatibility mode, when a policy activation occurs in workload management goal mode or when a workload management mode switch occurs (from goal to compatibility mode and vice versa). This token can be used across invocations of IWMRQRY to associate samples that were collected while the system was operating in a given state as described above. |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-------------|--|
| Dec | Hex | | | | |
| 48 | (30) | SIGNED | 2 | RQAAED# | number of enclave descriptive entries (zero if enclave information not requested or no enclaves exist). With >32K enclave support, maximum value that could be set for this field is 32k. RQAAXED# should be used to get the number of enclave descriptive entries |
| 50 | (32) | SIGNED | 2 | RQAAEDL | length of enclave descriptive entry |
| 52 | (34) | SIGNED | 4 | RQAAEDO | offset to enclave descriptive array (zero if no enclave RQAD entries) |
| 56 | (38) | SIGNED | 2 | RQAAXEE# | number of enclave RQAE entries (zero if enclave information not requested or no enclaves exist). With >32K enclave support, maximum value that could be set for this field is 32K. RQAAXEE# should be used to get the number of enclave RQAE entries |
| 58 | (3A) | SIGNED | 2 | RQAAXEEL | length of enclave RQAE entry |
| 60 | (3C) | SIGNED | 4 | RQAAXEEO | offset to enclave RQAE entries (zero if no enclave RQAE entries) |
| 64 | (40) | SIGNED | 4 | RQAAXED# | number of enclave descriptive entries (zero if enclave information not requested or no enclaves exist). With >32K Enclave support, the number of enclave descriptive entries could be more than 32K. This field should be used to obtain the number enclave descriptive entries. Added for macro version 6 and above. The array of RQADs is sparse. See note preceding the RQAD structure declare. |
| 68 | (44) | SIGNED | 4 | RQAAXEDL | length of enclave descriptive entry. Value of this field is identical to RQAAEDL. Added for macro version 6 and above. |
| 72 | (48) | SIGNED | 4 | RQAAXEDO | offset to enclave descriptive array (zero if no enclave RQAD entries). Value of this field is identical to RQAAEDO. Added for macro version 6 and above. |
| 76 | (4C) | SIGNED | 4 | RQAAXEE# | number of enclave RQAE entries (zero if enclave information not requested or no enclaves exist). With >32K enclave support, the number of enclave RQAE entries could be more than 32K. This field should be used to get the number of enclave RQAE entries. Added for macro version 6 and above. |
| 80 | (50) | SIGNED | 4 | RQAAXEEL | length of enclave RQAE entry. Value of this field is identical to RQAAXEEL. Added for macro version 6 and above. |
| 84 | (54) | SIGNED | 4 | RQAAXEEO | offset to enclave RQAE entries (zero if no enclave RQAE entries). Value of this field is identical to RQAAXEEO. Added for macro version 6 and above. |
| 88 | (58) | SIGNED | 4 | RQAACLVL | Current change level. |
| 92 | (5C) | CHARACTER | 1 | RQAAEND (0) | end of the RQAA |
| 92 | (5C) | X'5C' | 0 | RQAA_LEN | ""-RQAA" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|--------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | RQAE | Workload Activity Query Entry (RQAE) |
| 0 | (0) | CHARACTER | 4 | RQAEACRO | Acronym |
| 4 | (4) | SIGNED | 1 | RQAEVERS | Version |
| 5 | (5) | BITSTRING | 1 | RQAEFLGS (0) | Flags |
| | | 1... | | RQAESVRR | "X'80" This address space provides service to a different service class than the address space itself. If RqaeManagedAsServer is on, WLM will manage this space as needed to meet the transaction's goals and the goals specified in RQAESCLN will be ignored. If RqaeManagedAsServer is off, WLM will manage this address space to the goals specified in RQAESCLN |
| | | .1.. | | RQAEMPL | "X'40" MPL delay. Address space is ready, but swapped out. |
| | | ..1. | | RQAESWIN | "X'20" Swap-in delay. Address space is being swapped in. |
| | | ...1 | | RQAECAP | "X'10" Resource capping delay. Resource group maximum is being enforced for this address space. This delay is only returned if the address space is swapped in. Only valid in space. Only valid in goal mode |

IWMWRQAA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|---------------------|-----|----------------------|--|
| Dec | Hex | | | | |
| | | 1... | | RQAECQUI | "X'08" Quiesce delay. Address space or enclave has been reset. Only valid in goal mode. For enclaves, also see RQAEEFLG2: If RqaImplicitlyQuiesced is on, enclave is known to be running in an address space which has been quiesced. If RqaExplicitlyQuiesced is on, enclave is known to be reset quiesced. |
| | |1.. | | RQAECRIT | "X'04" Critical path indicator. If on, address space is on the critical path. |
| | |1. | | RQAEMANAGEDASSERVER | "X'02" WLM is managing this address space to meet the goals of work in other service classes. The goals specified in RQAESCLN will be ignored. |
| 6 | (6) |1 SIGNED | 2 | RQAERSV1 RQADECLX | "X'01" Reserved RQAE index associated with this address space. In goal mode this is the index into the service class list returned by IWMPQRY. In compatibility mode, this is the PGN number. Note 0 is a valid PGN number |
| 8 | (8) | CHARACTER | 10 | RQAERCLX (0) | Array of RQAE indexes associated with this address space. In goal mode, only RQAESRPG is valid and contains the index of a report class associated with this address space. In compatibility mode all five RPGN numbers are valid |
| 8 | (8) | SIGNED | 2 | RQAESRPG | Subsystem RPGN in compatibility mode. In goal mode this field contains the index of the report class associated with this address space |
| 10 | (A) | SIGNED | 2 | RQAENRPG | Trxname RPGN - valid only in compatibility mode |
| 12 | (C) | SIGNED | 2 | RQAEURPG | Userid RPGN - valid only in compatibility mode |
| 14 | (E) | SIGNED | 2 | RQAECRPG | Trxclass RPGN - valid only in compatibility mode |
| 16 | (10) | SIGNED | 2 | RQAEARPG | Account number RPGN - valid only in compatibility mode |
| 18 | (12) | SIGNED | 1 | RQAEPER# | Service class period number in goal mode. In goal mode, if this address space is a server, this value is always one. |
| 19 | (13) | SIGNED | 1 | RQAEDMN | Performance group period number in compatibility mode. |
| 20 | (14) | CHARACTER | 4 | RQAERSV2 | Domain number associated with this address space. Valid in compatibility mode only. |
| 24 | (18) | CHARACTER | 8 | RQAESCLN | Reserved |
| 32 | (20) | CHARACTER | 8 | RQAERCLN | Service class name associated with this address space. Only valid in goal mode. |
| 40 | (28) | CHARACTER | 8 | RQAERGNN | Report class name associated with this address space. Only valid in goal mode. |
| 48 | (30) | CHARACTER | 8 | RQAEWKLN | Resource group name associated with this address space. Only valid in goal mode. |
| 56 | (38) | CHARACTER | 8 | RQAEVELC (0) | Workload name associated with this address space. Only valid in goal mode. |
| 56 | (38) | SIGNED | 4 | RQAECUSE | Fields used to calculate execution velocity |
| 60 | (3C) | SIGNED | 4 | RQAETOTD | CPU using. Increased for each TCB or SRB dispatched on any processor (or first in-line after sampler.) |
| 64 | (40) | CHARACTER | 24 | RQAEGDEL (0) | Total delays for calculating execution velocity. Calculation is as follows: RQAETOTU / (RQAETOTU+RQAETOTD) |
| 64 | (40) | SIGNED | 2 | RQAECPU | General execution delays included in RQAETOTD. Each dispatchable unit can increase one of the CPU or paging samples |
| 66 | (42) | SIGNED | 2 | RQAECPU | CPU delay. Increased for each TCB or SRB waiting to be dispatched (other than the first in-line behind sampler) or for a TCB waiting for a lock |
| 68 | (44) | SIGNED | 2 | RQAEAPRV | CPU capping delay. Increased for each TCB or SRB marked non-dispatchable because of a resource group maximum being enforced. Not a subset of RQAECPU. |
| 70 | (46) | SIGNED | 2 | RQAEACOM | Waiting for paging I/O from private |
| 72 | (48) | SIGNED | 2 | RQAEAXM1 | Waiting for paging I/O from common |
| 74 | (4A) | SIGNED | 2 | RQAEAXM2 | Waiting for cross memory page fault in address space identified by RQAESMX1 |
| 76 | (4C) | SIGNED | 2 | RQAEAXMO | Waiting for cross memory page fault in address space identified by RQAESMX2 |
| | | | | | Waiting for cross memory page fault in address space other than that identified by RQAESMX1 or RQAESMX2 |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------------------|-----|--------------------------|---|
| Dec | Hex | | | | |
| 78 | (4E) | SIGNED | 2 | RQAEAVIO | Waiting for paging I/O from vio |
| 80 | (50) | SIGNED | 2 | RQAEAHSP | Waiting for paging I/O from standard hiperspaces. Includes waits during scroll write. |
| 82 | (52) | SIGNED | 2 | RQAEASPD | Waiting for shared paging from aux |
| 84 | (54) | CHARACTER | 4 | RQAERSV3 | Reserved |
| 88 | (58) | SIGNED | 2 | RQAEUNKN | Unknown. Address space is waiting, but none of the above reasons apply. Value is 0 or 1. |
| 90 | (5A) | SIGNED | 2 | RQAEIDLE | Idle. Work is in STIMER wait, TSO terminal wait, APPC wait, or is an initiator waiting for work. Value is 0 or 1. |
| 92 | (5C) | SIGNED | 2 | RQAESMX1 | ASID of address space associated with cross memory delays in RQAEAXM1 |
| 94 | (5E) | SIGNED | 2 | RQAESMX2 | ASID of address space associated with cross memory delays in RQAEAXM2 |
| 96 | (60) | SIGNED | 1 | RQAESWOR | Swap reason code |
| 97 | (61) | CHARACTER | 7 | RQAERSV4 | Reserved |
| 104 | (68) | SIGNED | 4 | RQAESRVO | Offset from RQAE to RQAESRV array. Zero in compatibility mode. |
| 108 | (6C) | SIGNED | 2 | RQAETOTU | Total usings for calculating execution velocity. |
| 110 | (6E) | SIGNED | 2 | RQAEIOU | Total I/O usings |
| 112 | (70) | CHARACTER | 16 | RQAEGL2 (0) | Additional general execution delays included in RQAETOTD |
| 112 | (70) | SIGNED | 2 | RQAEIOD | DASD I/O delay samples |
| 114 | (72) | SIGNED | 2 | RQAEQ | Queue delay samples. Work is waiting for a server. |
| 116 | (74) | SIGNED | 2 | RQAESPRV | Server private area paging delay samples. |
| 118 | (76) | SIGNED | 2 | RQAESVIO | Server space VIO paging delay samples. |
| 120 | (78) | SIGNED | 2 | RQAESHSP | Server hiperspace paging delay samples. |
| 122 | (7A) | SIGNED | 2 | RQAESMPL | Server MPL delay samples. |
| 124 | (7C) | SIGNED | 2 | RQAESSWI | Server Swap-In delay samples. |
| 126 | (7E) | CHARACTER | 2 | RQAERSV5 | Reserved |
| 128 | (80) | SIGNED | 4 | RQAETOTS | Total execution samples. Sum of RQAETOTU, RQAETOTD, RQAEUNKN, RQAEIDLE. Also always includes I/O using/delay samples whether or not I/O samples are included in RQAETOTU/RQAETOTD |
| 132 | (84) | BITSTRING 1... | 1 | RQAEFLG1 (0) | Flags |
| | | | | RQAEASPROTSTG | "X'80" Same as RasdASProtStg |
| | | | | RQAETRXNMGMTEXEMPT | "X'40" Same as RasdTrxnMgmtExempt |
| | | | | RQAECUPROTECTED | "X'20" Same as RasdCpuProtected |
| | | | | RQAESTGPROTECTED | "X'10" Same as RasdStgProtected |
| 133 | (85) | BITSTRING 1... | 1 | RQAEFLG2 (0) | Enclave flags |
| | | | | RQAEISRESET | "X'80" Enclave is reset to another service class or reset quiesced |
| | | | | RQAEEXPLICITLYQUIESCED | "X'40" If on, enclave is known to be reset quiesced. |
| | | | | RQAEIMPLICITLYQUIESCED | "X'20" If on, enclave is known to be running in an address space which has been quiesced. |
| 134 | (86) | CHARACTER | 16 | RQAEREPORTSAMPLES (0) | Report samples |
| 134 | (86) | SIGNED | 2 | RQAECRYPTOCAMU | CAM crypto using samples. Increased for every TCB found executing on a Cryptographic Asynchronous Message Processor. |
| 136 | (88) | SIGNED | 2 | RQAECRYPTOCAMD | CAM crypto delay samples. Increased for every TCB found waiting for a Cryptographic Asynchronous Message Processor. |
| 138 | (8A) | SIGNED | 2 | RQAECRYPTOAPU | AP crypto using samples. Increased for every TCB found executing on a Cryptographic Assist Processor. |
| 140 | (8C) | SIGNED | 2 | RQAECRYPTOAPD | |

IWMWRQAA Map

| Offsets | | | | | |
|---------|------|------------|-----|-----------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 142 | (8E) | SIGNED | 2 | RQAEFEATUREQD | AP crypto delay samples. Increased for every TCB found waiting for a Cryptographic Assist Processor. |
| 144 | (90) | SIGNED | 2 | RQAERESOURCECONTENTIONDELAY | Feature queue delay samples. Increased for every TCB or SRB found waiting on a processor feature queue associated with a CPU. This is a subset of RQAEUCUSE. |
| 146 | (92) | SIGNED | 2 | RQAERESOURCECONTENTIONUSING | Contention delay samples. One sample is accumulated for each resource held. Only resource holders identified via IWMCNTN are reported. |
| 148 | (94) | CHARACTER | 2 | | Contention using samples. One sample is accumulated for each resource in use. Only resource users identified via IWMCNTN are reported. |
| 150 | (96) | CHARACTER | 1 | RQAEEND (0) | Reserved |
| 150 | (96) | X'96' | 0 | RQAE_LEN | RQAE end "-RQAE" |

| Offsets | | | | | |
|---------|-----|------------|-----|-------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | RQAESRV | RQAE - Service classes served array. The dimension of the RQAESRV array is the maximum number of service classes defined. If a RQAESRVD entry is non-zero, the service class number that corresponds to the index into the array is being served by this address space. |
| 0 | (0) | SIGNED | 4 | RQAESRVD | An entry in the RQAESRV array. Number of times the address space running with this service class (RQAECLX) served this service class |
| 0 | (0) | X'4' | 0 | RQAESRV_LEN | "*-RQAESRV" |

| Offsets | | | | | |
|---------|-----|------------|-----|-------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | RQAD | Enclave Descriptive Entry |
| 0 | (0) | CHARACTER | 8 | RQADETKN | Enclave token |
| 8 | (8) | SIGNED | 4 | RQADQAE0 | Offset to Enclave RQAE for this entry from the RQAD (zero when RQADETKN is zero since no RQAE is provided) |
| 12 | (C) | SIGNED | 2 | RQADOWNERASID | Asid of address space which owns the enclave. This field is zero if the enclave is foreign or the information is unavailable due to a recovery problem. |
| 14 | (E) | BITSTRING | 2 | RQADFLAGS (0) | Interesting tidbits |
| 14 | (E) | BITSTRING | 1 | RQADFLAGS_BYTE1 (0) | |
| | | 1... | | RQADDEPENDENT | Byte boundary "X'80" The enclave was created via IWMECREA and is a continuation of the transaction for the owning address space. NOTE: This could have been named OriginalDependent but was left alone for compatibility. |
| | | .1.. | | RQADORIGINALINDEPENDENT | "X'40" The enclave was created via IWMECREA and is an independent transaction. |
| | | ..1. | | RQADFOREIGNINDEPENDENT | "X'20" The enclave was created via IWMIMPT and is a continuation of an independent enclave on another system. |
| | | ...1 | | RQADFOREIGNDEPENDENT | "X'10" The enclave was created via IWMIMPT and is a continuation of a dependent enclave on another system. |
| | | 1... | | RQADINACTIVEENCLAVE | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-------------------|---|
| Dec | Hex | | | | |
| 15 | (F) | BITSTRING | 1 | RQADFLAGS_BYTE2 | "X'08" The enclave is currently on inactive enclave queue because SRM did not find any workunit associated with the enclave. Enclave will move back to active queue once a workunit joins the enclave |
| 16 | (10) | BITSTRING | 8 | RQADTOTALCPUTIME | Byte boundary |
| 24 | (18) | BITSTRING | 8 | RQADOWNERSTOKEN | Cumulative CPU time consumed by dispatchable units running in the enclave on the local system. For a multisystem enclave, CPU time consumed on other systems is not included. May decrease between IWMRQRY invocations if transaction is restarted to avoid an overflow of internal accumulators. Same units as AscbEjst. |
| 32 | (20) | CHARACTER | 8 | RQADOWNERSYSTEM | Stoken of the address space that owns the enclave. If the enclave is foreign, this stoken refers to an address space on another system (RQADOwnerSystem), not the local system. |
| 40 | (28) | CHARACTER | 8 | RQADOWNERJOBNAME | System name on which the owner of the enclave resides. If the enclave is foreign, this is the system where the original enclave is located. Otherwise it is the local system name. |
| 48 | (30) | CHARACTER | 32 | RQADEXPORTTOKEN | Job name of the address space that owns the enclave. If the enclave is foreign, this job name refers to a job on another system (RQADOwnerSystem), not the local system. |
| 80 | (50) | CHARACTER | 4 | RQADSUBSYSTEMTYPE | Export token associated with the enclave if any. A monitor can collect IWMRQRY answer areas from multiple systems and match RQAD entries for a particular multisystem enclave using the export token. |
| 84 | (54) | CHARACTER | 8 | RQADSUBSYSTEMNAME | Subsystem type to which the enclave belongs. |
| 84 | (54) | X'D8C1C1' | 0 | RQAANAME | Subsystem name to which the enclave belongs. |
| | | | | | "C'RQAA' 'RQAA' ACRONYM |
| Comment | | | | | |

The RQAAVRID and RQAEVRID must be changed if new fields are added to any area in the RQAA output area (see APAR OW11082). This is to keep vendor products aware of changes to the output area.

NOTE: Since there is no versioning for the RQAD, updating the RQAAVRID and RQAEVRID is sufficient.

RQAA_VERSION4, RQAA_VERSION5

RQAA_VERSION7 and RQAA_VERSION8 are reserved. @OW40548

| | | | | | |
|----------------|------|------|---|----------------|---------------------------------|
| End of Comment | | | | | |
| 84 | (54) | X'1' | 0 | RQAA_VERSION1 | "1" RQAA version 1. 1=HBB5510 |
| 84 | (54) | X'2' | 0 | RQAA_VERSION2 | "2" RQAA version 2. 2=HBB5520 |
| 84 | (54) | X'3' | 0 | RQAA_VERSION3 | "3" RQAA version 3. 3=HBB6603 |
| 84 | (54) | X'6' | 0 | RQAA_VERSION6 | "6" RQAA version 6. 6=HBB6606 |
| 84 | (54) | X'9' | 0 | RQAA_VERSION9 | "9" RQAA version 9. 9=JBB6609 |
| 84 | (54) | X'A' | 0 | RQAA_VERSION10 | "10" RQAA version 10 10=HBB7703 |
| 84 | (54) | X'C' | 0 | RQAA_VERSION12 | "12" RQAA version 12 12=HBB7705 |
| 84 | (54) | X'D' | 0 | RQAA_VERSION13 | "13" RQAA version 13 13=HBB7706 |

IWMWRQAA Cross Reference

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|----------------|---|
| Dec | Hex | | | | |
| 84 | (54) | X'E' | 0 | RQAA_VERSION14 | "14" RQAA version 14 14=HBB7707 |
| 84 | (54) | X'E' | 0 | RQAAVRID | "14" Current version level |
| 84 | (54) | X'1' | 0 | RQAA_LEVEL1 | "1" RQAA level. 1=Crypto Reporting |
| 84 | (54) | X'2' | 0 | RQAA_LEVEL2 | "2" RQAA level. 2=Enclave SC Reset |
| 84 | (54) | X'2' | 0 | RQAAEVL | "2" Current level |
| 84 | (54) | X'D8C1C5' | 0 | RQAENAME | "C'RQAE'" 'RQAE' ACRONYM |
| 84 | (54) | X'1' | 0 | RQAE_VERSION1 | "1" RQAE version 1. 1=HBB5510 |
| 84 | (54) | X'2' | 0 | RQAE_VERSION2 | "2" RQAE version 2. 2=HBB5520 |
| 84 | (54) | X'3' | 0 | RQAE_VERSION3 | "3" RQAE version 3. 3=HBB6603 |
| 84 | (54) | X'6' | 0 | RQAE_VERSION6 | "6" RQAE version 6. 6=HBB6606 |
| 84 | (54) | X'9' | 0 | RQAE_VERSION9 | "9" RQAE version 9. 9=JBB6609 |
| 84 | (54) | X'A' | 0 | RQAE_VERSION10 | "10" RQAE version 10 10=HBB7703 |
| 84 | (54) | X'C' | 0 | RQAE_VERSION12 | "12" RQAE version 12 12=HBB7705 |
| 84 | (54) | X'D' | 0 | RQAE_VERSION13 | "13" RQAE version 13 13=HBB7706 |
| 84 | (54) | X'E' | 0 | RQAE_VERSION14 | "14" RQAE version 14 14=HBB7707 |
| 84 | (54) | X'E' | 0 | RQAEVRID | "14" Current version level |
| 84 | (54) | X'5C' | 0 | RQAALEN | "92" RQAA LENGTH |
| 84 | (54) | X'96' | 0 | RQAELEN | "150" RQAE LENGTH |
| 84 | (54) | X'8000' | 0 | MAX_RQAAED# | "32768" Maximum value that could be returned by RQAAED# |
| 84 | (54) | X'8000' | 0 | MAX_RQAAEE# | "32768" Maximum value that could be returned by RQAAEE# |
| 84 | (54) | X'5C' | 0 | RQAD_LEN | **RQAD" |

IWMWRQAA Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------------|------------|-----------|----------|------------|-----------|
| MAX_RQAAED# | 54 | 8000 | RQAAEDL | 32 | |
| MAX_RQAAEE# | 54 | 8000 | RQAAEDO | 34 | |
| RQAA | 0 | | RQAAEE# | 38 | |
| RQAA_LEN | 5C | 5C | RQAAEEL | 3A | |
| RQAA_LEVEL1 | 54 | 1 | RQAAEEO | 3C | |
| RQAA_LEVEL2 | 54 | 2 | RQAAEND | 5C | |
| RQAA_VERSION1 | 54 | 1 | RQAAGOAL | 9 | 80 |
| RQAA_VERSION10 | 54 | A | RQAALEN | 54 | 5C |
| RQAA_VERSION12 | 54 | C | RQAAEVL | 54 | 2 |
| RQAA_VERSION13 | 54 | D | RQAAMODE | 9 | |
| RQAA_VERSION14 | 54 | E | RQAANAME | 54 | D8C1C1 |
| RQAA_VERSION2 | 54 | 2 | RQAANTVL | 1C | |
| RQAA_VERSION3 | 54 | 3 | RQAAOVEL | 9 | 20 |
| RQAA_VERSION6 | 54 | 6 | RQAARSV | 9 | 1F |
| RQAA_VERSION9 | 54 | 9 | RQAARSV1 | 26 | |
| RQAAACRO | 0 | | RQAARSV2 | A | |
| RQAACLVL | 58 | | RQAASCA# | C | |
| RQAACOMP | 9 | 40 | RQAASCAL | E | |
| RQAAED# | 30 | | RQAASCOF | 10 | |
| | | | RQAASIZ | 4 | |
| | | | RQAASRV# | 22 | |
| | | | RQAASRVA | 20 | |
| | | | RQAASRVL | 24 | |
| | | | RQAASTKN | 28 | |
| | | | RQAATIM | 14 | |
| | | | RQAAVERS | 8 | |
| | | | RQAAVRID | 54 | E |
| | | | RQAAXED# | 40 | |

| Name | Hex Offset | Hex Value |
|-------------------------|------------|-----------|
| RQAAXEDL | 44 | |
| RQAAXEDO | 48 | |
| RQAAXEE# | 4C | |
| RQAAXEEL | 50 | |
| RQAAXEEO | 54 | |
| RQAD | 0 | |
| RQAD_LEN | 54 | 5C |
| RQADDEPENDENT | E | 80 |
| RQADETKN | 0 | |
| RQADEXPORTTOKEN | 30 | |
| RQADFLAGS | E | |
| RQADFLAGS_BYTE1 | E | |
| RQADFLAGS_BYTE2 | F | |
| RQADFOREIGNDEPENDENT | E | 10 |
| RQADFOREIGNINDEPENDENT | E | 20 |
| RQADINACTIVEENCLAVE | E | 8 |
| RQADORIGINALINDEPENDENT | E | 40 |
| RQADOWNERASID | C | |
| RQADOWNERJOBNAME | 28 | |
| RQADOWNERSTOKEN | 18 | |
| RQADOWNERSYSTEM | 20 | |
| RQADQAO | 8 | |
| RQADSUBSYSTEMNAME | 54 | |
| RQADSUBSYSTEMTYPE | 50 | |
| RQADTOTALCPUTIME | 10 | |
| RQAE | 0 | |
| RQAE_LEN | 96 | 96 |
| RQAE_VERSION1 | 54 | 1 |
| RQAE_VERSION10 | 54 | A |
| RQAE_VERSION12 | 54 | C |
| RQAE_VERSION13 | 54 | D |
| RQAE_VERSION14 | 54 | E |
| RQAE_VERSION2 | 54 | 2 |
| RQAE_VERSION3 | 54 | 3 |
| RQAE_VERSION6 | 54 | 6 |
| RQAE_VERSION9 | 54 | 9 |
| RQAEACOM | 46 | |
| RQAEACRO | 0 | |
| RQAEAHSP | 50 | |
| RQAEAPRV | 44 | |
| RQAEARPG | 10 | |

| Name | Hex Offset | Hex Value |
|-------------------------------|------------|-----------|
| RQAEASPD | 52 | |
| RQAEASPROTSTG | 84 | 80 |
| RQAEAVIO | 4E | |
| RQAEAXMO | 4C | |
| RQAEAXM1 | 48 | |
| RQAEAXM2 | 4A | |
| RQAECCAP | 5 | 10 |
| RQAECLX | 6 | |
| RQAECPUC | 42 | |
| RQAECPUD | 40 | |
| RQAECPUPROTECTED | 84 | 20 |
| RQAEQCUI | 5 | 8 |
| RQAECRIT | 5 | 4 |
| RQAECRPG | E | |
| RQAECRYPTOAPD | 8C | |
| RQAECRYPTOAPU | 8A | |
| RQAECRYPTOCAMD | 88 | |
| RQAECRYPTOCAMU | 86 | |
| RQAEUCUSE | 38 | |
| RQAEEDMN | 13 | |
| RQAEEND | 96 | |
| RQAEEXPLICITLYQUIESCED | 85 | 40 |
| RQAEFEATUREQD | 8E | |
| RQAEFLGS | 5 | |
| RQAEFLG1 | 84 | |
| RQAEFLG2 | 85 | |
| RQAEGLDEL | 40 | |
| RQAEGLDL2 | 70 | |
| RQAEIDLE | 5A | |
| RQAEIMPLICITLYQUIESCED | 85 | 20 |
| RQAEIOD | 70 | |
| RQAEIOU | 6E | |
| RQAEISRESET | 85 | 80 |
| RQAELEN | 54 | 96 |
| RQAEEMANAGEDASSERVER | 5 | 2 |
| RQAEEMPL | 5 | 40 |
| RQAEENAME | 54 | D8C1C5 |
| RQAEENRPG | A | |
| RQAEER# | 12 | |
| RQAEQ | 72 | |
| RQAEERCLN | 20 | |
| RQAEERCLX | 8 | |
| RQAEERREPORTSAMPLES | 86 | |
| RQAEERRESOURCECONTENTIONDELAY | 90 | |
| RQAEERRESOURCECONTENTIONUSING | 92 | |
| RQAEERGNN | 28 | |
| RQAEERSV1 | 5 | 1 |
| RQAEERSV2 | 14 | |
| RQAEERSV3 | 54 | |
| RQAEERSV4 | 61 | |
| RQAEERSV5 | 7E | |
| RQAESCLN | 18 | |

IWMWRQAA Cross Reference

| Name | Hex Offset | Hex Value |
|-------------------|---------------|--------------|
| RQAESHSP | 78 | |
| RQAESMPL | 7A | |
| RQAESMX1 | 5C | |
| RQAESMX2 | 5E | |
| RQAESPRV | 74 | |
| RQAESRPG | 8 | |
| RQAESRV | 0 | |
| RQAESRV_LEN | 0 | 4 |
| RQAESRVD | 0 | |
| RQAESRVO | 68 | |
| RQAESSWI | 7C | |
| RQAESTGPROTECTED | | |
| | 84 | 10 |
| RQAESVIO | 76 | |
| RQAESVRR | 5 | 80 |
| RQAESWIN | 5 | 20 |
| RQAESWOR | 60 | |
| RQAETOTD | 3C | |
| RQAETOTS | 80 | |
| RQAETOTU | 6C | |
| RQAETRXNMGMTXEMPT | | |
| | 84 | 40 |
| RQAEUNKN | 58 | |
| RQAEURPG | C | |
| RQAEVELC | 38 | |
| RQAEVER5 | 4 | |
| RQAEVRID | 54 | E |
| RQAEWKLN | 30 | |

IWMWSYSI Programming Interface information

Programming Interface information

IWMWSYSI

End of Programming Interface information

IWMWSYSI Heading Information

Common Name: WLM System Capacity Information Area
Macro ID: IWMWSYSI
DSECT Name: SYSI SYSI_ENTRY
Owning Component: WLM (SCWLM)
Eye-Catcher ID: SYSI
 Offset: 0
 Length: 4
Storage Attributes: Subpool: User Assigned
 Key: Any
 Residency: Anywhere
Size: SYSI -- X'0018' bytes
 SYSI_ENTRY -- X'0080' bytes
 Total SYSI size =
 24 bytes SYSI header +
 n (maximum number of systems)
 128 (SYSI_System_Entry_Size)
Created by: Caller of IWMWSYSQ
Pointed to by: IWMWSYSQ Parameter List
Serialization: None
Function: Holds system-specific capacity information, returned by the IWMWSYSQ service.

IWMWSYSI Map

| Offsets | | | | | |
|---------|------|------------|-----|------------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | SYSI | System information area |
| 0 | (0) | CHARACTER | 24 | SYSI_HEADER | SYSI header section |
| 0 | (0) | CHARACTER | 4 | SYSI_ID | Acronym |
| 4 | (4) | SIGNED | 1 | SYSI_VERSION | Version |
| 5 | (5) | CHARACTER | 3 | SYSI_RSV1 | Reserved |
| 8 | (8) | SIGNED | 2 | SYSI_HEADER_SIZE | Size in bytes of header section |
| 10 | (A) | SIGNED | 2 | SYSI_SYSTEM_ENTRY_SIZE | Size in bytes of a system information entry (SYSI_Entry) |
| 12 | (C) | SIGNED | 2 | SYSI_MAX_ENTRIES | Maximum number of system entries allowed in this SYSI area |
| 14 | (E) | SIGNED | 2 | SYSI_INUSE_ENTRIES | Number of system entries in use (starting with 1st entry) |
| 16 | (10) | SIGNED | 2 | SYSI_CALLERSIMPORTANCE | 0=system or sysstc, 1-5= wlm importance from policy, 6=discretionary. Field contains importance of the home AS when IWMWSYSQ was invoked. Field is only valid if capacity data for the local system is returned in the array. |
| 18 | (12) | CHARACTER | 6 | SYSI_RSV2 | Reserved |
| 24 | (18) | CHARACTER | 1 | SYSI_ENTRIES | Beginning of system entries |
| 24 | (18) | X'18' | 0 | SYSI_LEN | **-SYSI" |

| Offsets | | | | | |
|---------|-----|------------|-----|----------------------------|--------------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | SYSI_ENTRY | System information entry |
| 0 | (0) | CHARACTER | 8 | SYSI_SYSNAME | System name |
| 8 | (8) | CHARACTER | 4 | SYSI_ENTRY_STATUS | System entry status |
| | | 1... .. | | SYSI_CAPACITY_INFO_UNAVAIL | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|---------------------------|--|
| Dec | Hex | | | | |
| | | | | | "X'80" System capacity information is unavailable. This bit is set when the IWMWSYSQ service is invoked before WLM can collect processor management data from the associated system. Caller should wait for a few minutes before retry |
| | | .1.. | | SYSI_RESOURCE_CONstrained | "X'40" System is resource constrained due to the presence of one or more of the following conditions: 1. Below/fixed+DREF/real storage shortage exists 2. SQA storage shortage exists 3. Aux storage shortage exists 4. Excessive aux paging condition exists 5. Excessive aux swapping condition exists 6. An internal policy reactivation is in progress due to an abend. Note: This bit may only be used on MVS/ESA (version HBB6603 or higher) |
| 12 | (C) | CHARACTER | 104 | SYSI_CAPACITY_INFO | System capacity section |
| 12 | (C) | CHARACTER | 12 | SYSI_SU_ENTRY | Array of 7 entries. The entries are indexed with an origin of 1 so that the index matches the external Importance Level (1 to 5), discretionary (index 6), and unused (index 7) to which the entry pertains. Each entry contains number of CPU service units consumed by work at the indexed Importance Level, and all lower Importance Levels (and unused). The last entry (index 7) contains unused service units |
| 12 | (C) | SIGNED | 4 | SYSI_SUM60 | Number of service units consumed by work at this Importance Level, and all lower Importance Levels (and unused), summed over the last 60 seconds (1 minute) |
| 16 | (10) | SIGNED | 4 | SYSI_SUM180 | Number of service units consumed by work at this Importance Level, and all lower Importance Levels (and unused), summed over the last 180 seconds (3 minutes) |
| 20 | (14) | SIGNED | 4 | SYSI_SUM600 | Number of service units consumed by work at this Importance Level, and all lower Importance Levels (and unused), summed over the last 600 seconds (10 minutes) |
| 96 | (60) | SIGNED | 4 | SYSI_FREE_CSA | Free CSA (below the line) in bytes |
| 100 | (64) | SIGNED | 4 | SYSI_FREE_ECSEA | Free ECSEA in bytes |
| 104 | (68) | SIGNED | 4 | SYSI_CPU_UP | The speed of an individual CP on the system, in CPU service units per second, adjusted to compensate for MP effects Note: This field may be zero if the MVS release is prior to version HBB6603 |
| 108 | (6C) | SIGNED | 2 | SYSI_ONLINE_CPU_COUNT | Number of online CPUs. Note: This field may be zero if the MVS release is prior to version HBB6603 |
| 110 | (6E) | CHARACTER | 6 | SYSI_CAPACITY_RSV | Reserved |
| 116 | (74) | CHARACTER | 12 | SYSI_ENTRY_RSV | Reserved |
| 116 | (74) | X'E8E2C9' | 0 | SYSI_ID_CONST | "C'SYSI'" |
| 116 | (74) | X'1' | 0 | SYSI_VERSION1 | "1" |
| 116 | (74) | X'2' | 0 | SYSI_VERSION2 | "2" OW41245 |
| 116 | (74) | X'18' | 0 | SYSI_HEADERLEN | "24" |
| 116 | (74) | X'80' | 0 | SYSI_SYSTEM_ENTRYLEN | "128" |
| 116 | (74) | X'2' | 0 | SYSI_CURRENT_VER | "2" OW41245 |
| 116 | (74) | X'20' | 0 | SYSI_MAX_#SYSTEMS | "32" Maximum number of systems allowed |
| 116 | (74) | X'1018' | 0 | SYSI_MAX_LEN | "4120" Maximum SYSI size allowed |
| 116 | (74) | X'80' | 0 | SYSI_ENTRY_LEN | ** -SYSI_ENTRY" |

IWMWSYSI Cross Reference

IWMWSYSI Cross Reference

| Name | Hex Offset | Hex Value |
|----------------------------|---------------|--------------|
| SYSI | 0 | |
| SYSI_CALLERSIMPORTANCE | 10 | |
| SYSI_CAPACITY_INFO | C | |
| SYSI_CAPACITY_INFO_UNAVAIL | 8 | 80 |
| SYSI_CAPACITY_RSV | 6E | |
| SYSI_CPU_UP | 68 | |
| SYSI_CURRENT_VER | 74 | 2 |
| SYSI_ENTRIES | 18 | |
| SYSI_ENTRY | 0 | |
| SYSI_ENTRY_LEN | 74 | 80 |
| SYSI_ENTRY_RSV | 74 | |
| SYSI_ENTRY_STATUS | 8 | |
| SYSI_FREE_CSA | 60 | |
| SYSI_FREE_ECDSA | 64 | |
| SYSI_HEADER | 0 | |
| SYSI_HEADER_SIZE | 8 | |
| SYSI_HEADERLEN | 74 | 18 |
| SYSI_ID | 0 | |
| SYSI_ID_CONST | 74 | E8E2C9 |
| SYSI_INUSE_ENTRIES | E | |
| SYSI_LEN | 18 | 18 |
| SYSI_MAX_#SYSTEMS | 74 | 20 |
| SYSI_MAX_ENTRIES | C | |
| SYSI_MAX_LEN | 74 | 1018 |
| SYSI_ONLINE_CPU_COUNT | 6C | |
| SYSI_RESOURCE_CONSTRAINED | 8 | 40 |
| SYSI_RSV1 | 5 | |
| SYSI_RSV2 | 12 | |
| SYSI_SU_ENTRY | C | |
| SYSI_SUM180 | 10 | |
| SYSI_SUM60 | C | |
| SYSI_SUM600 | 14 | |
| SYSI_SYSNAME | 0 | |
| SYSI_SYSTEM_ENTRY_SIZE | A | |
| SYSI_SYSTEM_ENTRYLEN | 74 | 80 |
| SYSI_VERSION | 4 | |
| SYSI_VERSION1 | 74 | 1 |
| SYSI_VERSION2 | 74 | 2 |

IWMWSYSL Programming Interface information

Programming Interface information

IWMWSYSL

End of Programming Interface information

IWMWSYSL Heading Information

Common Name: Sysplex Query Response
Macro ID: IWMWSYSL
DSECT Name: SYSL
Owning Component: Workload Manager (SCWLM)
Eye-Catcher ID: None
Storage Attributes: Main Storage: NO
 Virtual Storage: YES
 Auxiliary Storage: YES
 Subpool: User assigned
 Key: 0-15
 Data Space: NO
 Residency: Anywhere
Size: See compiled/assembled listing
 SYSL -- X'0014' bytes
Created by: Caller of IWMSRLOC
Pointed to by: IWMSRLOC Parameter List
Serialization: None
Function: Holds sysplex query locations contained within a domain. Returned by IWMSRLOC service.

IWMWSYSL Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------------|-------------------------------|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | SYSL | |
| 0 | (0) | CHARACTER | 20 | SYSL_INFO (0) | Start of response information |
| 0 | (0) | CHARACTER | 18 | SYSL_LOCATION | Location Name |
| 18 | (12) | CHARACTER | 2 | | reserved |
| 18 | (12) | X'1' | 0 | SYSL_VERSION1 | "1" Version 1 |
| 18 | (12) | X'1' | 0 | SYSL_CURRENT_VER | "1" SYSL current version |
| 18 | (12) | X'14' | 0 | SYSL_LEN | "*-SYSL" |

IWMWSYSR Programming Interface information

Programming Interface information

IWMWSYSR

End of Programming Interface information

IWMWSYSR Heading Information

Common Name: Sysplex Router Response
Macro ID: IWMWSYSR
DSECT Name: SYSR, SYSR_EXT, and SYSR_EXT_ENTRY_USERDATA, SYSR_EXT2_ENTRY_HOST
Owning Component: Workload Manager (SCWLM)
Eye-Catcher ID: None
Storage Attributes: Main Storage: NO
 Virtual Storage: YES
 Auxiliary Storage: YES
 Subpool: User assigned
 Key: 0-15
 Data Space: NO
 Residency: Anywhere
Size: See compiled/assembled listing
 SYSR -- X'0014' bytes
 SYSR_EXT -- X'0018' bytes
 SYSR_EXT_ENTRY_USERDATA -- X'0040' bytes
 SYSR_EXT2_ENTRY_HOST -- X'0040' bytes
Created by: Caller of IWMSRSRS
Pointed to by: IWMSRSRS Parameter List
Serialization: None
Function: Holds sysplex router registered LU and weight information. Returned by IWMSRSRS service.

IWMWSYSR Map

| Offsets | | | | | |
|---------|------|------------|-----|---------------|-------------------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | SYSR | |
| 0 | (0) | CHARACTER | 20 | SYSR_INFO (0) | Start of response information |
| 0 | (0) | CHARACTER | 8 | SYSR_NETID | Network id |
| 8 | (8) | CHARACTER | 8 | SYSR_LUNAME | Logical Unit Name |
| 16 | (10) | SIGNED | 1 | SYSR_WEIGHT | Weight |
| 17 | (11) | CHARACTER | 3 | | reserved |
| 17 | (11) | X'14' | 0 | SYSR_LEN | "*-SYSR" |

| Offsets | | | | | |
|---------|-----|------------|-----|--------------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | SYSR_EXT | |
| 0 | (0) | CHARACTER | 24 | SYSR_EXT_HEADER (0) | Start of extension area. Extension header |
| 0 | (0) | SIGNED | 2 | SYSR_EXT_VERSION | Extension area version number |
| 2 | (2) | SIGNED | 2 | SYSR_EXT_SIZE | Size in bytes of the extension area including header and all entries |
| 4 | (4) | SIGNED | 2 | SYSR_EXT_HEADER_SIZE | Size in bytes of extension header |
| 6 | (6) | SIGNED | 2 | SYSR_EXT_ENTRY_COUNT | Number of extension entries in each data area |
| 8 | (8) | SIGNED | 2 | SYSR_EXT_ENTRY_USERDATA_OFFSET | Offset of the userdata section from the start of extension area |
| 10 | (A) | SIGNED | 2 | SYSR_EXT2_ENTRY_HOST_OFFSET | Offset of the host section from the start of extension area |

| Offsets | | | | | |
|---------|------|------------|-----|----------------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 12 | (C) | SIGNED | 2 | SYSR_EXT_ENTRY_RSV2_OFFSET | Offset of the rsv2 section from the start of extension area |
| 14 | (E) | SIGNED | 2 | SYSR_EXT_ENTRY_RSV3_OFFSET | Offset of the rsv3 section from the start of extension area |
| 16 | (10) | CHARACTER | 8 | SYSR_EXT_RSV | Reserverd |
| 24 | (18) | CHARACTER | 1 | SYSR_EXT_ENTRIES | (0) |
| 24 | (18) | X'18' | 0 | SYSR_EXT_LEN | Beginning of extension entries "-SYSR_EXT" |

| Offsets | | | | | |
|---------|-----|------------|-----|-----------------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | SYSR_EXT_ENTRY_USERDATA | User data entry |
| 0 | (0) | CHARACTER | 64 | SYSR_EXT_USERDATA | User data. The format is undefined to MVS |
| 0 | (0) | X'40' | 0 | SYSR_EXT_ENTRY_USERDATA_LEN | "*-SYSR_EXT_ENTRY_USERDATA" |

| Offsets | | | | | |
|---------|-----|------------|-----|--------------------------|------------------------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | SYSR_EXT2_ENTRY_HOST | User data entry |
| 0 | (0) | CHARACTER | 64 | SYSR_EXT2_HOST | Host Name. |
| 0 | (0) | X'1' | 0 | SYSR_EXT_VERSION1 | "1" Extension area version 1 |
| 0 | (0) | X'2' | 0 | SYSR_EXT_VERSION2 | "2" Extension area version 2 |
| 0 | (0) | X'1' | 0 | SYSR_EXT_CURRENT_VER | "1" Extension area current version |
| 0 | (0) | X'40' | 0 | SYSR_EXT2_ENTRY_HOST_LEN | "*-SYSR_EXT2_ENTRY_HOST" |

IWMWSYSR Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|--------------------------------|------------|-----------|-----------------------------|------------|-----------|
| SYSR | 0 | | SYSR_EXT_LEN | 18 | 18 |
| SYSR_EXT | 0 | | SYSR_EXT_RSV | 10 | |
| SYSR_EXT_CURRENT_VER | 0 | 1 | SYSR_EXT_SIZE | 2 | |
| SYSR_EXT_ENTRIES | 18 | | SYSR_EXT_USERDATA | 0 | |
| SYSR_EXT_ENTRY_COUNT | 6 | | SYSR_EXT_VERSION | 0 | |
| SYSR_EXT_ENTRY_RSV2_OFFSET | C | | SYSR_EXT_VERSION1 | 0 | 1 |
| SYSR_EXT_ENTRY_RSV3_OFFSET | E | | SYSR_EXT_VERSION2 | 0 | 2 |
| SYSR_EXT_ENTRY_USERDATA | 0 | | SYSR_EXT2_ENTRY_HOST | 0 | |
| SYSR_EXT_ENTRY_USERDATA_LEN | 0 | 40 | SYSR_EXT2_ENTRY_HOST_LEN | 0 | 40 |
| SYSR_EXT_ENTRY_USERDATA_OFFSET | 8 | | SYSR_EXT2_ENTRY_HOST_OFFSET | A | |
| SYSR_EXT_HEADER | 0 | | SYSR_EXT2_HOST | 0 | |
| SYSR_EXT_HEADER_SIZE | 4 | | SYSR_INFO | 0 | |
| | | | SYSR_LEN | 11 | 14 |

IWMWSYSR Cross Reference

| Name | Hex Offset | Hex Value |
|-------------|---------------|--------------|
| SYSR_LUNAME | 8 | |
| SYSR_NETID | 0 | |
| SYSR_WEIGHT | 10 | |

IWMYCON Programming Interface information

Programming Interface information

IWMYCON

End of Programming Interface information

IWMYCON Heading Information

Common Name: Constants for users of IWM services (includes Work Manager, Execution Delay, Policy Management and Workload Reporting Services)

Macro ID: IWMYCON

DSECT Name: N/A

Owning Component: Workload Manager (SCWLM)

Eye-Catcher ID: NONE

Storage Attributes: Key: N/A FREQUENCY: N/A

Size: N/A

Created by: N/A

Pointed to by: N/A

Serialization: N/A

Function: Provides a list of constants for users of IWM services and exits.

IWMYCON Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|----------------------|--------------------------|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | | |
| 0 | (0) | X'0' | 0 | IWMRETCODEOK | "0" Success |
| 0 | (0) | X'4' | 0 | IWMRETCODEWARNING | "4" Warning |
| 0 | (0) | X'8' | 0 | IWMRETCODEINVOCERROR | "8" Invocation Error |
| 0 | (0) | X'C' | 0 | IWMRETCODEENVEERROR | "12" Environmental Error |
| 0 | (0) | X'10' | 0 | IWMRETCODECOMPERROR | "16" Component Error |

Comment

Reason Codes -- IwmRetCodeWarning

(Note that the reason codes are of the form "xxxxYYYY" where "xxxx" is used to contain internal diagnostic information)

End of Comment

| | | | | | |
|---|-----|-----------|---|-------------------------------|--|
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENOWLM | "X'00000401" The system does not support WLM services |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENOMONENV | "X'00000402" Monitoring token indicates that no monitoring environment exists |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEMONENVNOTALLOC | "X'00000403" Monitoring token is not associated with an allocated monitoring environment owned by the current home address space |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODECOMPATNOSYSEVENTRQD | "X'00000404" System is in compatibility mode and NO SYSEVENT TRAXFRPT was requested, hence MVS did not receive the information |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEGOALNOMONENV | "X'00000405" System is in goal mode but the input monitoring token indicates no monitoring environment was established, hence MVS did not receive the information. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENOPARENV | "X'00000406" Input parent monitor token indicates no parent monitoring environment was established. The input dependent monitoring environment is now related to the Home address space. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODERETURNCONT | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|-------------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEWORKNOTFOUND | "X'00000407'" Switch Return was from a monitoring environment with an outstanding continuation. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENOCOONN | "X'00000408'" NO work matching the input search criteria was found |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEOUTPUTAREATOOSMALL | "X'00000409'" Connection token does not reflect a successful Connect. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENOSERVERSREGISTERED | "X'0000040A'" The output area is too small to contain all the available information. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEMONENVLACKSINFO | "X'0000040B'" No Logical Units have registered as a server. -@L3A |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEICSDEFAULT | "X'0000040C'" Input monitoring environment does not contain the necessary information |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEICSAREATOOSMALL | "X'0000040D'" The system default ICS is in effect |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODESTATEINVDATARET | "X'0000040E'" ICS area specified on IWMRCOLL was too small to contain all of the ICS data |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODETKNNOMATCH | "X'0000040F'" Invalid state token supplied on IWMRCOLL. Data was returned. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEENCLACTIVE | "X'00000410'" Input service class token does not reflect a service class in the current service policy |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODECOMPATMODE | "X'00000411'" Input enclave had SRBs scheduled or running, or one or more TCBs joined to the Enclave. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEIDSNOTMATCH | "X'00000412'" System is in compatibility mode, hence goals and importance are not available and so not factored into the output |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEIDSDONTMATCH | "X'00000413'" COND=YES was specified on a SERVD install request, but the base id passed did not match the base id of the SERVD on the WLM CDS |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENULLCDS | "X'00000414'" WLM CDS is empty |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEPOLICYACTINPROGRESS | "X'00000415'" Policy activation is in progress |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEPOLICYUNDEFINED | "X'00000416'" Policy to activate was not found in the service definition |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEBADSERVDE | "X'00000417'" Service definition extracted from WLM CDS has failed validation |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODESERVERNOTREGISTERED | "X'00000418'" Server not registerd |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODESERVERALREADYREG | "X'00000419'" Server already registerd |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENOPOLMGT | "X'0000041A'" Policy management services are not available on this release EQU X'0000041B' Reserved |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENOTENCLAVE | "X'0000041C'" Current dispatchable workunit is not associated with an Enclave |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEBADRESTKN | "X'0000041D'" Resource token is not valid |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENOIWMPMSCRSUBRECORD | "X'0000041E'" No IWMSVAEA subrecord exists in the WLM CDS. Renamed this equate to the next. OBSOLETE |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENOIWMSVAEASUBRECORD | |

IWMYCON Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|--------------------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEEXECENVCHANGED | "X'0000041E" No IWMSVAEA subrecord exists in the WLM CDS. This equate should be used over the previous one since IWMPMSCR means nothing. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODESYSINFOINCOMPLETE | "X'0000041F" The execution environment has changed while the requested function is in progress |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEUNKNOWNQUEUE | "X'00000420" System capacity data for one or more systems running in goal mode is unavailable for an IWMWSYSQ invocation |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENOIWMSVSEASUBRECORD | "X'00000421" Queue deregistration could not find the queue to be deregistered |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEDEFAULTPOLICY | "X'00000422" No IWMSVSEA subrecord exists in the WLM CDS. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODESYSTEMIGNORED | "X'00000423" The default policy is in effect |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENOSCHENV | "X'00000424" The input SYSTEML= contained a system name(s) which was ignored by WLM. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODESCHENVNOTFOUND | "X'00000425" The system does not support scheduling environments services. This return code is only set when the MVS release is prior to OS/390 Release 4. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODESCHENVNOTAVAILABLE | "X'00000426" The scheduling environment specified by SCHENV does not exist. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENOSCHENVDEFINED | "X'00000427" For the specified system (SYSTEM_NAME=), the scheduling environment contains resources that are not available. The specified system can not process the work. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODERESOURCENOTFOUND | "X'00000428" No scheduling environments or resources are defined. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODESCHENVNOSYSTEM | "X'00000429" The specified resource name is not known to WLM. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENODATA | "X'0000042A" The specified scheduling environment exists however the specified system is not known to WLM. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEETOKENNOMATCH | "X'0000042B" WLM has no data to return (IWMBQRY). |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODECONTINUERIP | "X'0000042C" No Enclave information matching the input Enclave token was found |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODESERVERNOTFOUND | "X'0000042D" IWMBRIP data accepted, but continue searching the job queue. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODESECONDARYWORKDELETED | "X'0000042E" Server not found |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODECNTLREGNOTREG | "X'0000042F" Unselected secondary work requests queued to this server task were deleted |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEACTIVESEVERSES | "X'00000430" Control region was not registered |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEUNKNOWNEXPORTTOKEN | "X'00000431" Active servers were encountered while shutting down OE servers. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEENCALREADYEXPORTED | "X'00000432" No enclave matching the export token was found |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEENCALREADYEXPORTED | "X'00000433" The enclave was exported by another system. It cannot be exported again by this system. |

| Offsets | | | | | |
|--|-----|------------|-----|---------------------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEBADENTRYVERSION | "X'00000434" Unable to write LPAR cache entry due to bad version number compare. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENOCACHEENTRY | "X'00000435" No LPAR cache entry for read request. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEBADBUFSIZE | "X'00000436" Bad LPAR cache entry buffer size. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEINVALIDSWITCHTOKEN | "X'00000437" The switch that the input Token Ned represents is not currently having its timestamp information maintained by WLM |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEINCOMPLETEOUTPUTDATA | "X'00000438" The DCMDT output area has not been initialized. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENOAFFINITYFOUND | "X'00000439" No temporal affinity found |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEREGIONNOTFOUND | "X'0000043A" Region not found |
| Comment | | | | | |
| <p>Reason Codes -- IwmRetCodeInvocError (Note that the reason codes are of the form "xxxxYYYY" where "xxxx" is used to contain internal diagnostic information) Note: Some of the reason codes below for invocation validation checks (such as the one for disabled callers) may not be returned. Instead an ABEND may occur. This is dependent on the state of the system at the time that the service is invoked.</p> | | | | | |
| End of Comment | | | | | |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODESRBMODE | "X'00000801" Caller is in SRB mode |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEXMEMUSERKEYTKN | "X'00000802" Caller is in Cross Memory mode while the token was requested in a user key |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEDISABLED | "X'00000803" Caller is disabled |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODELOCKED | "X'00000804" Caller is locked |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEMONENVSWITCHCONT | "X'00000805" Input monitor token reflects a switch continuation |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEMONENVPARENT | "X'00000806" Input monitor token reflects a continuation to a dependent monitoring environment |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEBADSTOKEN | "X'00000807" Bad STOKEN passed |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEMONENVDEPCONT | "X'00000808" Input monitor token reflects a continuation from a parent monitoring environment |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODESRBUSERKEYTKN | "X'00000809" Caller is in SRB mode, while the token was obtained in user key (8-F) |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODETCBNOTOWNERUSERKEYTKN | "X'0000080A" Current TCB is not the owner, while the token was obtained in a user key (8-F). |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEBADPL | "X'0000080B" Error accessing parameter list |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEMONENVLACKSDATA | "X'0000080C" Input monitoring environment does not contain the necessary information |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEBADSERVCLS | "X'0000080D" Input service class is not valid |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEARRTIMEGTENDTIME | |

IWMYCON Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|--------------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENOUSERKEYNTFY | "X'0000080E" Input arrival time later than current time |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEEUTFRR | "X'0000080F" User key routine not allowed to issue Notify |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENOUSERKEYRPT | "X'00000810" Caller has EUT FRR established |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEBADASCB | "X'00000811" User key routine not allowed to issue Report |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEUSERKEYNOMONTKN | "X'00000812" Bad ASCB address passed |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEUSERKEYWRONGPRIM | "X'00000813" User key caller with no monitoring token supplied |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEUSERKEYWRONGSERVER | "X'00000814" User key caller entered with primary different from home (P≠H) |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEDEPCONTEXTISTS | "X'00000815" User key caller entered with input SERVER ASCB NOT equal to current home |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEPARENVWORKRQSTABSENT | "X'00000816" Dependent monitoring environment is already associated with a work request. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEBOTHENVSAMETCB | "X'00000817" Parent monitoring environment is NOT associated with a work request. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODETCBALREADYASSOC | "X'00000818" Dependent monitoring environment is associated with the same TCB as the parent monitoring environment. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODECALLERNOTAUTHDEPEN | "X'00000819" Dependent monitoring environment is associated with the same TCB as another dependent monitoring environment with the same parent. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODECALLERNOTAUTHPARENV | "X'0000081A" Caller is not authorized to update the dependent monitoring environment |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODECONTEXISTS | "X'0000081B" Caller is not authorized to update the parent monitoring environment |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEBADELT | "X'0000081C" Outstanding continuation exists. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEBADLU62TKNLEN | "X'0000081D" Data within an element was inaccessible |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENORELATE | "X'0000081E" The length byte of the LU62 token has an invalid value. Only values 1-36 (decimal) are valid. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEBADMONENV | "X'0000081F" NO Parent environment exists since Relate Function(Continue) has not been performed or has not been performed subsequent to a Relate Function(Delete). |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEBADCONN | "X'00000820" Input monitoring environment does not pass short form validity checking |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEBADPARENV | "X'00000821" Input connect token does not pass validity checking |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEDATOFF | "X'00000822" Input parent monitoring environment does not pass short form validity checking |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEAMODE24 | "X'00000823" Caller invoked service while DATOFF |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEASCMODNOTPRIMARY | "X'00000824" Caller invoked service but was in 24 bit addressing mode. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEASCMODNOTPRIMARY | "X'00000825" Caller invoked service but was not DAT on Primary ASC mode. |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|------------------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODETASKTERM | "X'00000826" Caller invoked service while task termination is in progress for the current TCB. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEERSVDNOT0 | "X'00000827" Reserved field in parameter list was non-zero |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEBADVERSION | "X'00000828" Version number in parameter list or version length field is not valid |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEBADOPTIONS | "X'00000829" Parameter list omits required parameters or supplies mutually exclusive parameters or provides data associated with options not selected. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEMONENVRELATED | "X'0000082A" Input monitor token is related to a parent monitoring environment |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEBAD#INSTANCES | "X'0000082B" #INSTANCES variable is not a positive value. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEBADNUMBERASCB | "X'0000082C" NUMBERASCB variable is not a positive value. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEEEXSTTIMEGTENDTIME | "X'0000082D" Execution start time is greater than execution end time |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODECONNECTEXISTS | "X'0000082E" Connect has already been established for the current home address space. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEWRONGHOME | "X'0000082F" Caller invoked the service from the wrong home address space. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEBADALET | "X'00000830" Caller invoked the service but the alet used to address the parameter(s) is incorrect |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODECOLLSUSPENDED | "X'00000831" Workload reporting is suspended. No data is returned. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODESTATEINVNODATARET | "X'00000832" Invalid state token supplied on IWMRCOLL. No data was returned. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENOTINCOMPATMODE | "X'00000833" ICS information was requested but the the system is not in compatibility mode |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEBADICSALET | "X'00000835" Caller invoked the service but the alet used to address the ICS storage area is incorrect |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEMAXENCLAVE | "X'00000836" Enclave could not be created because the Enclave limit has been reached. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEUSERKEYCONNTKN | "X'00000837" Input connect token is associated with a user key. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODECLSFYAREATOOBIG | "X'00000838" Input area associated with classification information is larger than supported |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODECLSFYPLTOOSMALL | "X'00000839" Input Classify parameter list is too small |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEBADENCLAVE | "X'0000083A" Enclave token does not pass verification |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEHOMENOTOWNCONN | "X'0000083B" Home address space does not own the passed connect token |
| 0 | (0) | BITSTRING | 0 | IWMRSNMISSINGACRO | "X'0000083C" Required acronym missing from parameter list. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEBADSERVDI | "X'0000083D" Caller has passed a service definition that failed validation |

IWMYCON Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|-------------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODELEVELMISMATCH | "X'0000083E" Caller has passed a service definition where the functionality levels for SVDEF/SVDCR/SVNPA did not match. For example SVDEFLVL was SVDEF_LEVEL001 and SVDCRLVL/SVNPALVL were at LEVEL002 level. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEPRIMARYNOTOWNCONN | "X'0000083F" Current primary address space does not own the passed connect token |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODESERVICENOTENABLED | "X'00000840" Caller's space connection is not enabled for the requested service |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEXMEMMODE | "X'00000841" Caller is in Cross Memory mode |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENOWLMCONNECT | "X'00000842" Caller's space is not connected to WLM |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODESELECTINPROGRESS | "X'00000843" Select work is in progress in caller's address space |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEBADMONTKN_LISTLEN | "X'00000844" The storage area length specified on the MONTKN_LISTLEN parameter is not large enough to contain the data being Returned. No data is returned |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEWRONGENCLAVE | "X'00000845" Current dispatchable workunit is not associated with the input Enclave |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENOUSERKEYREG | "X'00000846" User key routine not allowed to issue Resource Registration |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEOTHERSPACECONNECTED | "X'00000847" Another address space with the same subsystem type and name is connected to the WLM queue manager. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEBADWORKUNITTOKEN | "X'00000848" The work unit token is not valid. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEWLMSEVBADAPPL | "X'00000849" For a WLM started server, the APPLENV is not the one used by WLM to start the server. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEWLMSEVBADSSN | "X'0000084A" For a WLM started server, the SUBSYSNM= is not the one used by WLM to start the server. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEWLMSEVBADSST | "X'0000084B" For a WLM started server, the SUBSYS= is not the one used by WLM to start the server. EQU X'0000084C' Reserved |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENOTAUTHCONNECT | "X'0000084D" The caller must be supervisor state or have PSW key mask 0-7 authority to connect to or disconnect from the requested WLM services. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEWLMSEVBADTYPE | "X'0000084E" For a WLM started server, the SERVER_TYPE= is not the one used to start the server |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEWRONGEXECTOKEN | "X'0000084F" Current dispatchable workunit is not associated with the input execution unit token |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEBEGINENVOUTSTANDING | "X'00000850" Current dispatchable workunit is already operating under an outstanding Begin environment |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODESECENVOUTSTANDING | "X'00000851" Current dispatchable workunit is already operating under an outstanding security environment |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEEXECTOKENNOTCORRECT | "X'00000852" The execution unit token does not identify a previously selected work unit |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEWLMQMBADTYPE | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|--------------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODETOOMANYSELECT | "X'00000853" There is a queue manager/router environment of the specified subsystem type and name, but it is a different type than specified by the caller. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEBADNUMEUMAX | "X'00000854" The caller is attempting to select more work units than allowed by the value specified on PARALLEL_EU when the server connected to WLM. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEBADNUMEUMIN | "X'00000855" PARALLEL_EU variable is greater than the maximum of 1000 |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEALREADYINENCLAVE | "X'00000856" PARALLEL_EU variable is less than the minimum of 1 |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENOTEJOINEDTCB | "X'00000857" Current dispatchable workunit is already in an Enclave |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEENCLAVESUBTASKEXISTS | "X'00000858" Current TCB did not issue Enclave Join, but only inherited Enclave attribute from mother TCB |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODESELECTEDWORKACTIVE | "X'00000859" Current TCB has residual subtasks propagated to the Enclave which are still associated with the Enclave |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENOSERVDAREA | "X'0000085A" The selected work element associated with the input execution unit token is already in execution |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEWRONGNUMEU | "X'0000085B" Caller invoked service without a required SERVD area or the SERVD area address is 0 |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEMONENVNOTHOME | "X'0000085C" Caller invoked service with a PARALLEU_EU value which is different from the PARALLEL_EU of existing servers in the application environment |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEBADNUMSYS | "X'0000085D" The input monitoring environment is related to an address space other than home |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEBADSYSTEML | "X'0000085E" The value for NUMSYS was less than 1 or greater than 32. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENOSYSTEML | "X'0000085F" Error accessing system list storage. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEQUEUENOTDEFINED | "X'00000860" System list did not contain any valid system names. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENOPRIORSELECT | "X'00000861" Input queue (QTOKEN=) is not defined to WLM. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENOEXECENV | "X'00000862" Caller has not previously selected work using IWMSSSEL. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODESECONDARYWORKEXISTS | "X'00000863" Caller has not established an execution environment using IWMSTBGN. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEROUTINGTABLEEXISTS | "X'00000864" There are secondary work requests queued to this server task. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEDUPLICATECTRLREG | "X'00000865" The sysplex routing table already exists. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODECNTRLREGALREADYREG | "X'00000866" Control region triplet is already in use on system |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEMAXCNTRLREGEXCEED | "X'00000867" Address space has already registered as a control region |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEMAXCNTRLREGEXCEED | "X'00000868" Maximum number of control regions per system has been reached |

IWMYCON Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|--------------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODESYSTYPENOTREG | "X'00000869" Subsystem type was not registered for control region routing |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEGROUPNOTREG | "X'0000086A" Group was not registered for control region routing for this subsystem |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENOCNTLREG | "X'0000086B" No control region was registered for the group |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENOCRROUTETABLE | "X'0000086C" No routing table is available |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENOCRGROUPS | "X'0000086D" No groups found for subsystem |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENOTCNTLREG | "X'0000086E" Service was invoked by caller who is not a registered control region |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEINVALIDSHUTDOWN | "X'0000086F" Invalid shutdown function specified |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEBADEXPORTTOKEN | "X'00000870" The export token is not validly formatted |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEDIDNOTEXPORTORIMPORT | "X'00000871" The primary address space did not export or import the enclave so it cannot undo the export or import |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEFOREIGNENCLAVE | "X'00000872" The requested service is not supported for a foreign enclave |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEWRONGSRVLMT | "X'00000873" Caller invoked service with a SERVER_LIMIT value which is different from the SERVER_LIMIT of existing servers in the application environment |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEWRONGMNGTSK | "X'00000874" Caller invoked service with a MANAGE_TASKS flag which is different from the MANAGE_TASKS of existing servers in the application environment |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODETKNINDMSMCH | "X'00000875" The supplied NED Token and NED index do not refer to the same subsystem |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENOCPUONLINE | "X'00000876" All the supplied CPUs are currently brought off-line by operator |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEDCMNOTINITIALIZED | "X'00000877" Dynamic CHPid Management is not ready to accept calls to C4CPY, C4DEL, C4TMP or C4PIV. (The XDE does not exist) |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEBADNUMLIMITMAX | "X'00000878" Server_Limit is greater than 1000 |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEBADNUMLIMITMIN | "X'00000879" Server_Limit is smaller than PARALLE_EU |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENOQSERVER | "X'0000087A" Using these parameters requires to specify SERVER_TYPE(Queue) |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEUNEXPECTEDCALL | "X'0000087B" The call of IWMSINF is not allowed when MANAGE_TASKS is NO |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEWRONGAELIMITS | "X'0000087C" Appl. Env. Limits don't match definitions of running servers |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEBADNUMAESRVMAX | "X'0000087D" Appl. Env. Limit: AEServerMax is smaller than parallel_eu |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEROMONENV | "X'0000087E" Appl. Contexts: Input monitoring environment is report only |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEROPARENV | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---|-----|------------|-----|------------------------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEBADREGTOKEN | "X'0000087F" Appl. Contexts: Input parent monitoring environment is report only |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEENCLAVEPREVIOUSLYDELETED | "X'00000880" Register token does not pass verification |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODETOOMANYREGISTRATIONS | "X'00000881" The enclave was already deleted before, but physical deletion is delayed due to outstanding deregistration. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEMONENVASSOCIATE | "X'00000882" The internal registration limit was reached |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEENCLAVEDEFEX | "X'00000883" Appl. Contexts: Input monitoring environment is associated |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEBADREQUESTCODE | "X'00000884" Appl. Contexts: Enclave is marked Execution Start deferred |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEBADENTITYTYPE | "X'00000886" Invalid request code specified in topology request |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEBADREQUESTLIST | "X'00000887" Invalid entity type specified in topology request |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEBADRESOURCELEN | "X'00000888" The topology request list has invalid entries |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEBADENTITYID | "X'00000889" The resource identifier is too long, negative, or 0 |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEBADTCB | "X'0000088A" Invalid entity id specified in topology request |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEBADREQUESTLISTVERSION | "X'0000088B" The specified TCB address does not pass verification |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEBADREQUESTLISTLENGTH | "X'0000088C" The topology request list version is incorrect |
| 0 | (0) | BITSTRING | 0 | | "X'0000088D" The topology request list length is incorrect |
| Comment | | | | | |
| Reason Codes -- IwmRetCodeEnvError (Note that the reason codes are of the form "xxxxYYYY" where "xxxx" is used to contain internal diagnostic information) | | | | | |
| End of Comment | | | | | |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENOSTG | "X'00000C01" No storage is available for the request |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEREPORTINGSUSP | "X'00000C02" SYSEVENT TRAXFRPT invoked, but reporting is temporarily suspended for one of the following reasons: 1) RMF workload activity reporting is not active 2) There is no installation control specification (IEAICSxx parmlib member with RPGN specified for some subsystem other than TSO) in effect No data reported but a later reissue could be successful |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODESYSEVENTNOWORKELT | "X'00000C03" SYSEVENT TRAXFRPT invoked, but no work element was available to save the input information |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENTFYNOWORKELT | "X'00000C04" Notify routine invoked, but no work element was available to save the input information |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODERPTNOWORKELT | "X'00000C05" Report routine invoked, but no work element was available to save the input information |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENOENDTIME | "X'00000C06" No end time was supplied to the service and STCK gave a non-zero condition code. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENOARRTIME | |

IWMYCON Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|------------------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENOEXTIME | "X'00000C07'" No arrival time was supplied to the service and STCK gave a non-zero condition code. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENORESMGR | "X'00000C08'" No execution start time was supplied to the service and STCK gave a non-zero condition code. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODESUSPENDED | "X'00000C09'" No RESMGR could be established |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODESTATECHANGED | "X'00000C0A'" Data sampling, or collection is suspended as a result of a component error. No data can be returned for this invocation (IWMWRCOL or IWMWRQRY) |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODECLASSIFYFAIL | "X'00000C0B'" A state change (SET IPS or ICS while in compatability mode, a policy activation while in goal mode, or a mode switch from compatability mode to goal or vise versa) occured while the data for the last sampling interval was being collected. No data is returned for this invocation of IWMWRQRY. The current sampling interval should be bypassed, future invocations of IWMWRQRY for subsequent sampling intervals should begin returning data again |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEBADCLSFY | "X'00000C0C'" WLM Classification failed when it was invoked from the ENCLAVE CREATE service, IWMECREA. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEINSUFACCESS | "X'00000C0D'" Classification apparently can not access the current policy possibly due to a policy switch in progress. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODECDSNOTAVAIL | "X'00000C0E'" Caller has insufficient RACF authority to the WLM CDS resource |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODECDSTOOSMALL | "X'00000C0F'" WLM CDS is not available |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEONESYSTEMUNABLE | "X'00000C10'" WLM CDS is too small |
| 0 | (0) | BITSTRING | 0 | IWMRSNNOGOALMODESYSTEMS | "X'00000C11'" One or more systems was unable to activate the new policy |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEPOLICYNOTAVAIL | "X'00000C12'" There are no goal mode systems in the sysplex |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENOWORKSHUTDOWN | "X'00000C13'" When invoked from the IWMPACT service, the service definition in CDS has failed validation |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODESERVERUNAVAIL | "X'00000C14'" No work selected. Caller is to shutdown. EQU X'00000C15' Reserved |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODESECENVCREATEFAILED | "X'00000C16'" A server cannot be started to process the IWMQINS request. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODESECENVDELETEFAILED | "X'00000C17'" A user security environment cannot be created. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENOTSECAUTHCONNECT | "X'00000C18'" A user security environment cannot be deleted. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEAPPLNOTDEFINED | "X'00000C19'" The caller is not authorized by SAF to connect to WLM with SERVER_MANAGER=YES |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEAPPLNOTSST | "X'00000C1A'" The APPLENV is not defined in the current WLM policy. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODESERVERNOTSTARTED | "X'00000C1B'" The APPLENV is defined for another subsystem type in the current WLM policy. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEQMGGRNOTACTIVE | "X'00000C1C'" No server exists for the specified application environment and no server could be started. |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|-------------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEHIGHERVERSIONLEVEL | "X'00000C1D" The required Queue Manager is not active |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODESERVEREXISTS | "X'00000C1E" CDS has a higher version service definition for this system. A system with a lower level version can not activate a service policy since it is not capable of handling all the function in the service definition. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEDEPCLASSIFYFAIL | "X'00000C1F" A server exists for the specified application environment which only allows 1 such server in the sysplex. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENOMONENVERR | "X'00000C20" Unable to obtain classification attributes for a dependent enclave. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEAPPLENVQUIESCED | "X'00000C21" Monitoring token indicates that no monitoring environment exists. Most delay monitoring services use the less severe version of this reason code (402x). |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEAPPLENVSTOPPED | "X'00000C22" The application environment has been quiesced. server cannot be started for the request. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEINDLOCALSYSTEM | "X'00000C23" Local system is not running with the current WLM policy, new server cannot be started for the request. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEPROCNAMEBLANK | "X'00000C24" Server procname is blank, server cannot be started for the request. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEAPPLENVSTOPPED | "X'00000C25" WLM has given up trying to start a server because of failures. The associated application environment has been internally stopped. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEROUTERNOTACTIVE | "X'00000C26" Either there is no router exists for the requested server or the router exists but not active. No server can be selected/started on this system. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEFSVREQINCOMPAT | "X'00000C27" No server exists for the IWMSRFSV request and WLM cannot find a goal mode system in the sysplex to start a server. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEBADSERVICECLASS | "X'00000C28" Service class not defined to WLM. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODESVDEFIDWRONG | "X'00000C29" SVDEF_ID does not match the service definition in use by WLM. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEDUPLICATEQUEUE | "X'00000C2A" QTOKEN or SRVCLSNM matches a previously registered batch job queue |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODETOKENNOTCURRENT | "X'00000C2B" The input token does not correspond to the active policy |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODECANNOTACCESSPOLICY | "X'00000C2C" The active policy cannot be accessed possibly due to a policy activation in progress. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEBADPERFORMANCEGROUP | "X'00000C2D" Performance group number is not defined. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEWRONGMODE | "X'00000C2E" The requested function is not available in the current WLM system mode. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODESYSTEMSPACE | "X'00000C2F" The function is not allowed for a system address space. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEDUPLICATEJOBS | "X'00000C30" More than one job exists with the specified jobname. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEWRONGASID | |

IWMYCON Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|----------------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENOTELIGIBLEFORSRVCLASS | "X'00000C31" The specified jobname is not active in the specified address space id. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEOTHERSUBSYSREGQUEUE | "X'00000C32" The specified jobname is not eligible for reset into the specified system service class |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENOSELECTION | "X'00000C33" QTOKEN is already registered by another subsystem. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENOTSECAUTHSERVREG | "X'00000C34" WLM is unable to make a selection. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODESTRUCTUREUNAVAILABLE | "X'00000C35" The caller is not authorized by SAF to reg/dereg a server |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODESTRUCTUREFULL | "X'00000C36" WLM does not have access to its coupling facility structure |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEUPLEVELOBJECT | "X'00000C37" The coupling facility structure is full |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODETOOMANYSYSTEMS | "X'00000C38" An object requires functions that are not available on this level of the operating system |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEINVALIDSUBSYSTEM | "X'00000C39" The sysplex has exceeded 32 systems with unique names. This can occur when a system is reIPLed into the sysplex with a different SYSNAME or CPU Adjustment factor. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODESTOPTASK | "X'00000C3A" Invalid subsystem provided. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODECONFIGFAILED | "X'00000C3B" WLM decided to stop the current task. This can occur when WLM reduces the number of instances per server |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEENTRYNOTPROCESSED | "X'00000C3C" System failed to configure CPU on-line. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODETOOMANYSWITCHES | "X'00000C3D" The input DCMDT entry was not processed due to a CF error |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEUNABLETORETRIEVETMP | "X'00000C3E" The maximum number of switches that WLM can maintain timestamp information has been exceeded |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODENOSAFCHECKPOSSIBLE | "X'00000C3F" WLM was unable to retrieve the timestamp for the I/O subsystem |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODESAFCHECKFAILED | "X'00000C40" A SAF or RACF security function could not be performed |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEALETEROR | "X'00000C41" A SAF or RACF security function failed |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEALETEROR | "X'00000C42" An error occurred while accessing the access list entry table |

Comment

Reason Codes -- IwmRetCodeCompError

(Note that the reason codes are of the form "xxxxYYYY" where

"xxxx" is used to contain internal diagnostic information)

Other Constants

End of Comment

| | | | | | |
|---|-----|-----------|---|-------------------------|---|
| 0 | (0) | BITSTRING | 0 | IWMRSNCODE_HIMASK_CONST | "X'FFFFF000" Mask to isolate internal diagnostic info |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODE_MASK_CONST | "X'0000FFFF" Mask to isolate external reason code |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|-------------------------------|--|
| Dec | Hex | | | | |
| | |1 | | IWMABNL_SCOPE_LOCALMVS | "X'00000001" Mask for abnormalities which would only affect work on one MVS image |
| | |1. | | IWMABNL_SCOPE_SYSPLEX | "X'00000002" Mask for abnormalities which would affect work on all MVS images in the sysplex |
|  |  | .... .... |  | IWMCLSFY_BINARY_NOT_SPECIFIED | "X'80000000" For FIXED(31) classification attributes such as priority, indicates the value is not available. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODELDEINVALID | "X'00000F01" LPAR cache entry invalid. LDE type. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODECDEINVALID | "X'00000F02" LPAR cache entry invalid. CDE type. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODEXDEINVALID | "X'00000F03" LPAR cache entry invalid. XDE type. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODESDEINVALID | "X'00000F04" LPAR cache entry invalid. SDE type. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODESXDEINVALID | "X'00000F05" LPAR cache entry invalid. SXDE type. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODECDETABLEINVALID | "X'00000F06" DCM entry invalid. CDE Table type. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODECDEXINVALID | "X'00000F07" DCM entry invalid. CDEX type. |
| 0 | (0) | BITSTRING | 0 | IWMRSNCODECPEINVALID | "X'00000F08" DCM entry invalid. CPE type. |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|--------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | PB | |
| 0 | (0) | DBL WORD | 8 | (0) | |
| 0 | (0) | CHARACTER | 32 | PB_CREATE | Space reserved for Create attributes |
| 0 | (0) | CHARACTER | 5 | PB_ID_VERSION | |
| | | | | | Space for id and version information |
| 0 | (0) | CHARACTER | 4 | PB_ID | Space for id |
| 0 | (0) | X'C24040' | 0 | PB_ID_CONST | "C'PB " Performance block eye catcher constant |
| 4 | (4) | BITSTRING | 1 | PB_VERSION | Space for version information |
| 4 | (4) | X'1' | 0 | PB_VERSION1 | "1" Performance block version 1. 1=HBB5510, HBB5520 |
| 4 | (4) | X'2' | 0 | PB_VERSION2 | "2" Performance block version 2. 2=HBB6603. |
| 4 | (4) | X'3' | 0 | PB_VERSION3 | "3" Performance block version 3. 3=JBB6609. |
| 4 | (4) | X'4' | 0 | PB_VERSION4 | "4" Performance block version 4. 4=HBB7705. |
| 4 | (4) | X'5' | 0 | PB_VERSION5 | "5" Performance block version 5. 4=HBB7707. |
| 4 | (4) | X'5' | 0 | PB_CURRENT_VERSION | |
| | | | | | "5" Performance block current version |
| 5 | (5) | BITSTRING | 1 | PB_FLAGS | Flag Area |
| 5 | (5) | X'C0' | 0 | PB_FLAGS_MASK | |
| | | | | | "PB_REPORT_ONLY+PB_ASSOCIATE" Mask for PB Flags |
| | | 1... | | PB_REPORT_ONLY | |
| | | | | | "B'10000000" This is a report only PB |
| | | .1... | | PB_ASSOCIATE | |
| | | | | | "B'01000000" This PB is associated with an enclave or an address space |
| 6 | (6) | BITSTRING | 2 | PB_NEW_LENGTH | |
| | | | | | Length of PB_CLEAR. See Notes section in prolog if you are changing the length of PB_CLEAR |
| 8 | (8) | CHARACTER | 4 | PB_SUBSYS_TYPE | |
| | | | | | Subsystem type |
| 12 | (C) | CHARACTER | 8 | PB_SUBSYSNM | Subsystem name |
| 20 | (14) | ADDRESS | 4 | PB_MIRROR_PTR | |
| | | | | | PB Mirror pointer |
| 20 | (14) | BITSTRING | 4 | PB_MIRROR_TKN | |
| | | | | | Token for control information |
| 24 | (18) | CHARACTER | 8 | PB_RSVD0018 | Reserved space |

IWMYCON Map

| Offsets | | | | | |
|---------|--------|------------|-----|--------------------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 32 | (20) | CHARACTER | 1 | PB_CLEAR_FLD (0) | Origin of area to be cleared for reuse |
| 32 | (20) | BITSTRING | 4 | PB_OWNER_DATA | |
| 36 | (24) | BITSTRING | 4 | PB_OWNER_TKN | Data specified by user/owner |
| 40 | (28) | DBL WORD | 8 | (0) | Token specified by user/owner |
| 40 | (28) | BITSTRING | 8 | PB_ARRTIME | PB_ARRTIME should be on a dwd boundary |
| 48 | (30) | DBL WORD | 8 | (0) | Arrival time for work request |
| 48 | (30) | BITSTRING | 8 | PB_EXSTARTTIME | PB_EXSTARTTIME should be on a dwd boundary |
| 56 | (38) | ADDRESS | 4 | PB_DU_ASCB | Execution start time for work request |
| 60 | (3C) | ADDRESS | 4 | PB_DU | Address of ASCB associated with the dispatchable unit serving the work request |
| 60 | (3C) | X'1' | 0 | PB_DU_SRB | Address of TCB associated with the dispatchable unit serving the work request or 1 signifying an SRB |
| 60 | (3C) | X'1' | 0 | PB_SRB_SAMEDU_NO | "1" DU is associated with an SRB |
| 60 | (3C) | X'3' | 0 | PB_SRB_SAMEDU_YES | "1" DU is associated with an SRB distinct from the parent |
| 64 | (40) | CHARACTER | 1 | PB_RSVD0040 | "3" DU is associated with same SRB as parent |
| 65 | (41) | BITSTRING | 1 | PB_STATE | Reserved space |
|  |  | .... .... |  | PB_STATE_FREE | State of the work request |
| | |1 | | PB_STATE_ACTIVE | "X'00" State is free - PB not associated with a work request |
| | |1 | | PB_STATE_ACTIVE_SUBSYS | "X'01" State is active - work request associated with the PB is active (running on a CP) |
| | |1. | | PB_STATE_READY | "X'01" @WLMPAPC State is active - subsys work request with the PB is active (running on a CP) - Equivalent to old active state |
| | |11 | | PB_STATE_IDLE | "X'02" State is ready - work request associated with the PB is ready (could run on a CP if another program were not running) |
| | |1.. | | PB_STATE_ACTIVE_APPLIC | "X'03" State is idle - no work request is available to the work manager that it is allowed to run |
| 111. | ...1 | | | PB_STATE_WAITING_SSL_THREAD | "X'04" @WLMPAPC State is active - application work with the PB is active |
| 111. | ...1. | | | PB_STATE_WAITING_REGULAR_THREAD | "X'E1" @WLMPAPC State is waiting on an SSL Thread |
| 111. | ...11 | | | PB_STATE_WAITING_REGIST_TO_WORKTABLE | "X'E2" @WLMPAPC State is waiting on a regular Thread |
| 11.1 | ...1 | | | PB_STATE_WAITING_TYPE1 | "X'E3" @WLMPAPC State is waiting for a registration to worktable |
| 11.1 | ...1. | | | PB_STATE_WAITING_TYPE2 | "X'D1" @WLMPPBS Waiting state for resource TYPE 1 |
| 11.1 | ...11 | | | PB_STATE_WAITING_TYPE3 | "X'D2" @WLMPPBS Waiting state for resource TYPE 2 |
| 11.1 | ...1.. | | | PB_STATE_WAITING_TYPE4 | "X'D3" @WLMPPBS Waiting state for resource TYPE 3 |
| 11.1 | ...1.1 | | | PB_STATE_WAITING_TYPE5 | "X'D4" @WLMPPBS Waiting state for resource TYPE 4 |
| 11.1 | ...11. | | | PB_STATE_WAITING_TYPE6 | "X'D5" @WLMPPBS Waiting state for resource TYPE 5 |
| 11.1 | ...111 | | | PB_STATE_WAITING_TYPE7 | "X'D6" @WLMPPBS Waiting state for resource TYPE 6 |
| 11.1 | 1... | | | PB_STATE_WAITING_TYPE8 | "X'D7" @WLMPPBS Waiting state for resource TYPE 7 |
| 11.1 | 1...1 | | | PB_STATE_WAITING_TYPE9 | "X'D8" @WLMPPBS Waiting state for resource TYPE 8 |
| | | | | | "X'D9" @WLMPPBS Waiting state for resource TYPE 9 |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------------------------------|---|
| Dec | Hex | | | | |
| | | 11.1 1.1. | | PB_STATE_WAITING_TYPE10 | "X'DA" @WLMPPBS Waiting state for resource TYPE 10 |
| | | 11.1 1.11 | | PB_STATE_WAITING_TYPE11 | "X'DB" @WLMPPBS Waiting state for resource TYPE 11 |
| | | 11.1 11.. | | PB_STATE_WAITING_TYPE12 | "X'DC" @WLMPPBS Waiting state for resource TYPE 12 |
| | | 11.1 11.1 | | PB_STATE_WAITING_TYPE13 | "X'DD" @WLMPPBS Waiting state for resource TYPE 13 |
| | | 11.1 111. | | PB_STATE_WAITING_TYPE14 | "X'DE" @WLMPPBS Waiting state for resource TYPE 14 |
| | | 11.1 1111 | | PB_STATE_WAITING_TYPE15 | "X'DF" @WLMPPBS Waiting state for resource TYPE 15 |
| | | 1111 ...1 | | PB_STATE_WAITING_BUFFER_POOL_IO | "X'F1" State is waiting on an IO due to a buffer pool miss |
| | | 1111 ..1. | | PB_STATE_WAITING_BUFFER_POOL_CF | "X'F2" State is waiting on an CF access due to a buffer pool miss |
| | | 1111 ..11 | | PB_STATE_WAITING_BUFFER_POOL_CF_IO | "X'F3" State is waiting on an IO due to a buffer pool miss and a CF miss |
| | | 1111 .1.. | | PB_STATE_WAITING_CF_IO | "X'F4" @WLMPPBPM State is waiting on an IO due to a CF miss |
| | | 1111 .1.1 | | PB_STATE_WAITING_DISTRIB | "X'F5" State is waiting on a distributed request |
| | | 1111 .11. | | PB_STATE_WAITING_TIMER | "X'F6" State is waiting on a timer |
| | | 1111 .111 | | PB_STATE_WAITING_LATCH | "X'F7" State is waiting on a latch |
| | | 1111 1... | | PB_STATE_WAITING_CONV | "X'F8" State is waiting on a conversation |
| | | 1111 1..1 | | PB_STATE_WAITING_SESS_LOCALMVS | "X'F9" State is waiting to establish a session somewhere in the same MVS image |
| | | 1111 1.1. | | PB_STATE_WAITING_SESS_SYSPLEX | "X'FA" State is waiting to establish a session somewhere in the sysplex |
| | | 1111 1.11 | | PB_STATE_WAITING_SESS_NETWORK | "X'FB" State is waiting to establish a session somewhere in the network |
| | | 1111 11.. | | PB_STATE_WAITING_OTHER_PRODUCT | "X'FC" State is waiting on another product |
| | | 1111 11.1 | | PB_STATE_WAITING_MISC | "X'FD" State is waiting on some unidentified resource, possibly one of the other defined waiting conditions |
| | | 1111 111. | | PB_STATE_WAITING_LOCK | "X'FE" State is waiting on one or more locks |
| | | 1111 1111 | | PB_STATE_WAITING_IO | "X'FF" State is waiting on I/O or some activity associated with an I/O request |
| 66 | (42) | BITSTRING | 1 | PB_WORKDEF | Flags associated with the work request |
| | | 1... | | PB_INIT | "B'10000000" Initialize used for work environment |
| | | .1.. | | PB_FROM_LOCALMVS | "B'01000000" CONTINUATION(YES) FROM(LOCALMVS) |
| | | ..1. | | PB_FROM_SYSPLEX | "B'00100000" CONTINUATION(YES) FROM(SYSPLEX) |
| | | ...1 | | PB_FROM_NETWORK | "B'00010000" CONTINUATION(YES) FROM(NETWORK) |
| | | 1... | | PB_FROM_NONE | "B'00001000" CONTINUATION(YES) FROM(NONE) |
| | |1.. | | PB_SCOPE_SHARED | "B'00000100" Initialize SCOPE(SHARED) work rqst |

IWMYCON Map

| Offsets | | | | | |
|---|------|------------------------|-----|-----------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| Comment | | | | | |
| EQU B'00000010' RESERVED | | | | | |
| End of Comment | | | | | |
| 67 | (43) |1 BITSTRING | 1 | PB_RELATE PB_SWITCH_INFO | "B'00000001" Relate used for work environment Switch Continuation Information |
| | |1 | | PB_SWITCH_LOCALMVS | "X'01" Switch WHERE(LOCALMVS) |
| | |1. | | PB_SWITCH_SYSPLEX | "X'02" Switch WHERE(SYSPLEX) |
| | |11 | | PB_SWITCH_NETWORK | "X'03" Switch WHERE(NETWORK) |
| 68 | (44) | BITSTRING | 1 | PB_MONENV_INFO | Information about the mon. env. |
| 68 | (44) | X'C0' | 0 | PB_DURATION | "PB_DURATION_EXECUTION+PB_DURATION_BEGIN_TO_END" Mask for all duration options. |
| Comment | | | | | |
| WARNING: PB_DURATION must be updated whenever a new duration value is added. | | | | | |
| End of Comment | | | | | |
| | | 1... | | PB_DURATION_BEGIN_TO_END | "B'10000000" DURATION(BEGIN_TO_END) |
| | | .1.. | | PB_DURATION_EXECUTION | "B'01000000" DURATION(EXECUTION) |
| 69 | (45) | CHARACTER | 3 | PB_RSVD0045 | Reserved space |
| 72 | (48) | BITSTRING | 4 | PB_PARENT_MONTKN | Token for the parent monitoring environment |
|  |  | .... .... |  | PB_PARENT_MONTKN_HIBIT | "X'80000000" Hi order bit of token |
| 74 | (4A) | SIGNED | 2 | PB_PARENT_HOME_ASID | ASID for Parent when parent is an address space |
| 76 | (4C) | ADDRESS | 4 | PB_PARENT_MIRROR_PTR | PB Parent mirror token pointer |
| 76 | (4C) | BITSTRING | 4 | PB_PARENT_MIRROR_TKN | Token for parent control information |
| 80 | (50) | BITSTRING | 4 | PB_DEP_MONTKN | Token for the dependent monitoring environment related to this environment |
|  |  | .... .... |  | PB_DEP_MONTKN_HIBIT | "X'80000000" Hi Order bit of token |
| 84 | (54) | ADDRESS | 4 | PB_DEP_MIRROR_PTR | PB Dependent mirror token pointer |
| 84 | (54) | BITSTRING | 4 | PB_DEP_MIRROR_TKN | Token for dependent environment control information |
| 88 | (58) | BITSTRING | 4 | PB_SC_TKN | Service class token for the work request |
| 92 | (5C) | BITSTRING | 4 | PB_ABNORMAL_FLAGS | Abnormal flags |
| | |1 | | PB_ABNORMAL_LOCALMVS | "X'00000001" Abnormality only affects current MVS image |
| | |1. | | PB_ABNORMAL_SYSPLEX | "X'00000002" Abnormality affects all MVS images in the sysplex |
| 96 | (60) | CHARACTER | 52 | PB_WORK_ATTRIBUTES | Attributes associated with the work request |
| 96 | (60) | CHARACTER | 8 | PB_USERID | Userid associated with the work request |
| 104 | (68) | CHARACTER | 8 | PB_TRXNAME | Transaction name associated with the work request |
| 112 | (70) | CHARACTER | 8 | PB_TRXCLASS | Transaction class associated with the work request |
| 120 | (78) | CHARACTER | 8 | PB_RSVD0078 | Reserved space |

| Offsets | | | | | |
|---------|------|------------|-----|-----------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 128 | (80) | CHARACTER | 17 | PB_SOURCELU | Source LU name associated with the work request |
| 145 | (91) | BITSTRING | 3 | PB_RSVD0091 | Reserved space |
| 148 | (94) | BITSTRING | 1 | PB_LU62TKN_FMT | Format of the LU62 token |
| | |1 | | PB_LU62FMT_LU_NO_CC_27 | "X'01" The LU6.2 token associated with the work request is a fixed length token of 27 bytes with no conversation correlator (not even its length byte). The LU name may be 1-17 bytes. Bytes at the end of the token are padded with hexadecimal zeros, if necessary, to form a full 27 bytes. |
| | |1. | | PB_LU62FMT_FULL_LU_NO_CC_27 | "X'02" The LU6.2 token associated with the work request is a fully qualified LU name (17 bytes), but no conversation correlator (not even its length byte) is provided. This format is architected to be 27 bytes long. |
| | |11 | | PB_LU62FMT_FULL_LU_0_CC_28 | "X'03" The LU6.2 token associated with the work request is a fully qualified LU name (17 bytes), and the conversation correlator length byte is present and has the value 0. This format is architected to be 28 bytes long. |
| | |1.. | | PB_LU62FMT_FULL_LU_CC_36 | "X'04" The LU6.2 token associated with the work request is a fully qualified LU name (17 bytes), and the conversation correlator is provided with a length of 8 (maximum allowed). This format is architected to be 36 bytes long. |
|  |  | .... .... |  | PB_LU62FMT_OTHER | "X'00" The LU6.2 token associated with the work request contains self-defining length fields. |
| 148 | (94) | X'24' | 0 | PB_MAX_LU62TKN_LEN | "36" Maximum length of an LU6.2 token (in decimal). |
| 149 | (95) | BITSTRING | 1 | PB_RSVD0095 | Reserved space |
| 150 | (96) | SIGNED | 2 | (0) | PB_AS_ID should be on a hwrdr boundary |
| 150 | (96) | BITSTRING | 2 | PB_AS_ID | Address space id |
| 152 | (98) | CHARACTER | 36 | PB_LU62TKN | LU 6.2 token associated with the work request |
| 188 | (BC) | BITSTRING | 4 | PB_RSVD00BC | Reserved space |
| 192 | (C0) | CHARACTER | 8 | PB_ETOKEN | Enclave token |
| 200 | (C8) | CHARACTER | 8 | PB_BP_RESTKN | Buffer Pool resource token associated with the work request |
| 208 | (D0) | CHARACTER | 8 | PB_CF_RESTKN | Coupling Facility Structure resource token associated with the work request |
| 216 | (D8) | CHARACTER | 32 | PB_TRANS_TTOKEN | Transaction Trace Token |
| 248 | (F8) | CHARACTER | 8 | PB_RSVD00F8 | Reserved space |

Comment

PB_CLEAR_LEN EQU -PB_CLEAR_FLD - Length of section cleared
 ORG PB_CLEAR_FLD
 PB_CLEAR DS CL(PB_CLEAR_LEN) Area to be cleared for reuse
 Any fields added prior to PB_CLEAR_LEN (and after PB_CLEAR_FLD)
 will be cleared by Initialize/Relate, while fields added after
 PB_CLEAR_LEN will NOT be cleared. If you are changing the length
 of PB_CLEAR, then read the Notes section in the prolog. @PWA0230

End of Comment

IWMYCON Cross Reference

IWMYCON Cross Reference

| Name | Hex Offset | Hex Value |
|-------------------------------|---------------|--------------|
| IWMCLSFY_BINARY_NOT_SPECIFIED | 0 | 0 |
| IWMMABNL_SCOPE_LOCALMVS | 0 | 1 |
| IWMMABNL_SCOPE_SYSPLEX | 0 | 2 |
| IWMRETCODECOMPERROR | 0 | 10 |
| IWMRETCODEENVEERROR | 0 | C |
| IWMRETCODEINVOCERROR | 0 | 8 |
| IWMRETCODEEOK | 0 | 0 |
| IWMRETCODEWARNING | 0 | 4 |
| IWMRSNCODE_HIMASK_CONST | 0 | FF0000 |
| IWMRSNCODE_MASK_CONST | 0 | FFFF |
| IWMRSNCODEACTIVESERVERS | 0 | 431 |
| IWMRSNCODEEALETERROR | 0 | C42 |
| IWMRSNCODEALREADYINENCLAVE | 0 | 857 |
| IWMRSNCODEEAMODE24 | 0 | 824 |
| IWMRSNCODEEAPPLENVQUIESCED | 0 | C22 |
| IWMRSNCODEEAPPLENVSTOPPED | 0 | C25 |
| IWMRSNCODEEAPPLNOTDEFINED | 0 | C1A |
| IWMRSNCODEEAPPLNOTSST | 0 | C1B |
| IWMRSNCODEEARRTIMEGTENDTIME | 0 | 80E |
| IWMRSNCODEEASCMODENOTPRIMARY | 0 | 825 |
| IWMRSNCODEEBAD#INSTANCES | 0 | 82B |
| IWMRSNCODEEBADALET | 0 | 830 |
| IWMRSNCODEEBADASCB | 0 | 812 |
| IWMRSNCODEEBADBUFSIZE | 0 | 436 |
| IWMRSNCODEEBADCLSFY | 0 | C0D |
| IWMRSNCODEEBADCONN | 0 | 821 |
| IWMRSNCODEEBADELT | 0 | 81D |
| IWMRSNCODEEBADENCLAVE | 0 | 83A |
| IWMRSNCODEEBADENTITYID | 0 | 88A |
| IWMRSNCODEEBADENTITYTYPE | 0 | 887 |
| IWMRSNCODEEBADENTRYVERSION | 0 | 434 |
| IWMRSNCODEEBADEXPORTTOKEN | 0 | 870 |

| Name | Hex Offset | Hex Value |
|----------------------------------|---------------|--------------|
| IWMRSNCODEEBADICSALET | 0 | 835 |
| IWMRSNCODEEBADLU62TKNLEN | 0 | 81E |
| IWMRSNCODEEBADMONENV | 0 | 820 |
| IWMRSNCODEEBADMONTKN_LISTLEN | 0 | 844 |
| IWMRSNCODEEBADNUMAESRVMAX | 0 | 87D |
| IWMRSNCODEEBADNUMBERASCB | 0 | 82C |
| IWMRSNCODEEBADNUMEUMAX | 0 | 855 |
| IWMRSNCODEEBADNUMEUMIN | 0 | 856 |
| IWMRSNCODEEBADNUMLIMITMAX | 0 | 878 |
| IWMRSNCODEEBADNUMLIMITMIN | 0 | 879 |
| IWMRSNCODEEBADNUMSYS | 0 | 85E |
| IWMRSNCODEEBADOPTIONS | 0 | 829 |
| IWMRSNCODEEBADPARENV | 0 | 822 |
| IWMRSNCODEEBADPERFORMANCEGROUP | 0 | C2D |
| IWMRSNCODEEBADPL | 0 | 80B |
| IWMRSNCODEEBADREGTOKEN | 0 | 880 |
| IWMRSNCODEEBADREQUESTCODE | 0 | 886 |
| IWMRSNCODEEBADREQUESTLIST | 0 | 888 |
| IWMRSNCODEEBADREQUESTLISTLENGTH | 0 | 88D |
| IWMRSNCODEEBADREQUESTLISTVERSION | 0 | 88C |
| IWMRSNCODEEBADRESOURCELEN | 0 | 889 |
| IWMRSNCODEEBADRESTKN | 0 | 41D |
| IWMRSNCODEEBADSERVCLS | 0 | 80D |
| IWMRSNCODEEBADSERVDE | 0 | 417 |
| IWMRSNCODEEBADSERVDI | 0 | 83D |
| IWMRSNCODEEBADSERVICECLASS | 0 | C28 |
| IWMRSNCODEEBADSTOKEN | 0 | 807 |
| IWMRSNCODEEBADSYSTEML | 0 | 85F |
| IWMRSNCODEEBADTCB | 0 | 88B |
| IWMRSNCODEEBADVERSION | 0 | 828 |
| IWMRSNCODEEBADWORKUNITTOKEN | 0 | 848 |
| IWMRSNCODEEBEGINENVOUTSTANDING | | |

| Name | Hex Offset | Hex Value |
|--------------------------------|------------|-----------|
| IWMRSNCODEBOTHENVSAMETCB | 0 | 850 |
| IWMRSNCODECALLERNOTAUTHDEPEN | 0 | 818 |
| IWMRSNCODECALLERNOTAUTHPAREN | 0 | 81A |
| IWMRSNCODECANNOTACCESSPOLICY | 0 | 81B |
| IWMRSNCODECDEINVALID | 0 | C2C |
| IWMRSNCODECDETABLEINVALID | 0 | F02 |
| IWMRSNCODECDEXINVALID | 0 | F06 |
| IWMRSNCODECDSNOTAVAIL | 0 | F07 |
| IWMRSNCODECDSSTOOSMALL | 0 | C0F |
| IWMRSNCODECDSTOOSMALL | 0 | C10 |
| IWMRSNCODECLASSIFYFAIL | 0 | C0C |
| IWMRSNCODECLSIFYAREATOOBIG | 0 | 838 |
| IWMRSNCODECLSIFYPLTOOSMALL | 0 | 839 |
| IWMRSNCODECNTLREGALREADYREG | 0 | 867 |
| IWMRSNCODECNTLREGNOTREG | 0 | 430 |
| IWMRSNCODECOLLSUSPENDED | 0 | 831 |
| IWMRSNCODECOMPATMODE | 0 | 412 |
| IWMRSNCODECOMPATNOSYSEVENTRQD | 0 | 404 |
| IWMRSNCODECONFIGFAILED | 0 | C3C |
| IWMRSNCODECONNECTEXISTS | 0 | 82E |
| IWMRSNCODECONTEXISTS | 0 | 81C |
| IWMRSNCODECONTINUERIP | 0 | 42D |
| IWMRSNCODECPEINVALID | 0 | F08 |
| IWMRSNCODEDATOFF | 0 | 823 |
| IWMRSNCODEDCMNOTINITIALIZED | 0 | 877 |
| IWMRSNCODEDEFAULTPOLICY | 0 | 423 |
| IWMRSNCODEDEPCLASSIFYFAIL | 0 | C20 |
| IWMRSNCODEDEPCONTEXISTS | 0 | 816 |
| IWMRSNCODEDIDNOTEXPORTORIMPORT | 0 | 871 |
| IWMRSNCODEDISABLED | 0 | 803 |
| IWMRSNCODEDUPLICATECNTLREG | 0 | 866 |
| IWMRSNCODEDUPLICATEJOBS | 0 | C30 |
| IWMRSNCODEDUPLICATEQUEUE | 0 | C2A |

| Name | Hex Offset | Hex Value |
|------------------------------------|------------|-----------|
| IWMRSNCODEENCALREADYEXPORTED | 0 | 433 |
| IWMRSNCODEENCLACTIVE | 0 | 411 |
| IWMRSNCODEENCLAVEDEFEX | 0 | 884 |
| IWMRSNCODEENCLAVEPREVIOUSLYDELETED | 0 | 881 |
| IWMRSNCODEENCLAVESUBTASKEXISTS | 0 | 859 |
| IWMRSNCODEENTRYNOTPROCESSED | 0 | C3D |
| IWMRSNCODEETOKENNOMATCH | 0 | 42C |
| IWMRSNCODEEUTFRF | 0 | 810 |
| IWMRSNCODEEXECENVCHANGED | 0 | 41F |
| IWMRSNCODEEEXCTOKENNOTCORRECT | 0 | 852 |
| IWMRSNCODEEEXSTTIMEGTENDTIME | 0 | 82D |
| IWMRSNCODEFOREIGNENCLAVE | 0 | 872 |
| IWMRSNCODEFSVREQINCOMPAT | 0 | C27 |
| IWMRSNCODEGOALNOMONENV | 0 | 405 |
| IWMRSNCODEGROUPNOTREG | 0 | 86A |
| IWMRSNCODEHIGHERVERSIONLEVEL | 0 | C1E |
| IWMRSNCODEHOMENOTOWNCONN | 0 | 83B |
| IWMRSNCODEICSAREATOOSMALL | 0 | 40E |
| IWMRSNCODEICSDEFAULT | 0 | 40D |
| IWMRSNCODEIDSNTMATCH | 0 | 413 |
| IWMRSNCODEINCOMPLETEOUTPUTDATA | 0 | 438 |
| IWMRSNCODEINDLOCALSYSTEM | 0 | C23 |
| IWMRSNCODEINSUFACCESS | 0 | C0E |
| IWMRSNCODEINVALIDSHUTDOWN | 0 | 86F |
| IWMRSNCODEINVALIDSUBSYSTEM | 0 | C3A |
| IWMRSNCODEINVALIDSWITCHTOKEN | 0 | 437 |
| IWMRSNCODELDEINVALID | 0 | F01 |
| IWMRSNCODELEVELMISMATCH | 0 | 83E |
| IWMRSNCODELOCKED | 0 | 804 |
| IWMRSNCODEMAXCNTLREGEXCEED | 0 | 868 |
| IWMRSNCODEMAXENCLAVE | 0 | 836 |
| IWMRSNCODEMONENVASSOCIATE | 0 | 883 |
| IWMRSNCODEMONENVDEPCONT | | |

IWMYCON Cross Reference

| Name | Hex Offset | Hex Value |
|--------------------------------|---------------|--------------|
| IWMRSNCODEMONENVLACKSDATA | 0 | 808 |
| IWMRSNCODEMONENVLACKSINFO | 0 | 80C |
| IWMRSNCODEMONENVNOTALLOC | 0 | 40C |
| IWMRSNCODEMONENVNOTHOME | 0 | 403 |
| IWMRSNCODEMONENVNVPARENT | 0 | 85D |
| IWMRSNCODEMONENVRELATED | 0 | 806 |
| IWMRSNCODEMONENVSWITCHCONT | 0 | 82A |
| IWMRSNCODENOAFFINITYFOUND | 0 | 805 |
| IWMRSNCODENOARRTIME | 0 | 439 |
| IWMRSNCODENOCACHEENTRY | 0 | C07 |
| IWMRSNCODENOCNTLREG | 0 | 435 |
| IWMRSNCODENOCNN | 0 | 86B |
| IWMRSNCODENOCPUONLINE | 0 | 409 |
| IWMRSNCODENOCRGROUPS | 0 | 876 |
| IWMRSNCODENOCRROUTETABLE | 0 | 86D |
| IWMRSNCODENOCRRROUTETABLE | 0 | 86C |
| IWMRSNCODENODATA | 0 | 42B |
| IWMRSNCODENOENDTIME | 0 | C06 |
| IWMRSNCODENOEXECENV | 0 | 863 |
| IWMRSNCODENOEXTIME | 0 | C08 |
| IWMRSNCODENOIWMPPMSCRSUBRECORD | 0 | 41E |
| IWMRSNCODENOIWMSSVAEASUBRECORD | 0 | 41E |
| IWMRSNCODENOIWMSSVSEASUBRECORD | 0 | 422 |
| IWMRSNCODENOMONENV | 0 | 402 |
| IWMRSNCODENOMONENVERR | 0 | C21 |
| IWMRSNCODENOPAREN | 0 | 406 |
| IWMRSNCODENOPOLMGT | 0 | 41A |
| IWMRSNCODENOPRIORSELECT | 0 | 862 |
| IWMRSNCODENOQSERVER | 0 | 87A |
| IWMRSNCODENORELATE | 0 | 81F |
| IWMRSNCODENORESMGR | 0 | C09 |
| IWMRSNCODENOSAFCHECKPOSSIBLE | 0 | C40 |
| IWMRSNCODENOSCHENV | 0 | 425 |

| Name | Hex Offset | Hex Value |
|----------------------------------|---------------|--------------|
| IWMRSNCODENOSCHENVDEFINED | 0 | 428 |
| IWMRSNCODENOSELECTION | 0 | C34 |
| IWMRSNCODENOSERVAREA | 0 | 85B |
| IWMRSNCODENOSERVERSREGISTERED | 0 | 40B |
| IWMRSNCODENOSTG | 0 | C01 |
| IWMRSNCODENOSYSTEML | 0 | 860 |
| IWMRSNCODENOTAUTHCONNECT | 0 | 84D |
| IWMRSNCODENOTCNTLREG | 0 | 86E |
| IWMRSNCODENOTEJOINEDTCB | 0 | 858 |
| IWMRSNCODENOTELIGIBLEFORSRVCLASS | 0 | C32 |
| IWMRSNCODENOTENCLAVE | 0 | 41C |
| IWMRSNCODENOTINCOMPATMODE | 0 | 833 |
| IWMRSNCODENOTSECAUTHCONNECT | 0 | C19 |
| IWMRSNCODENOTSECAUTHSERVREG | 0 | C35 |
| IWMRSNCODENOUSERKEYNTFY | 0 | 80F |
| IWMRSNCODENOUSERKEYREG | 0 | 846 |
| IWMRSNCODENOUSERKEYRPT | 0 | 811 |
| IWMRSNCODENOWLM | 0 | 401 |
| IWMRSNCODENOWLMCONNECT | 0 | 842 |
| IWMRSNCODENOWORKSHUTDOWN | 0 | C14 |
| IWMRSNCODENTFYNOWORKELT | 0 | C04 |
| IWMRSNCODENULLCDS | 0 | 414 |
| IWMRSNCODEONESYSTEMUNABLE | 0 | C11 |
| IWMRSNCODEOTHERSPACECONNECTED | 0 | 847 |
| IWMRSNCODEOTHERSUBSYSREGQUEUE | 0 | C33 |
| IWMRSNCODEOUTPUTAREATOOSMALL | 0 | 40A |
| IWMRSNCODEPARENWORKRQSTABSENT | 0 | 817 |
| IWMRSNCODEPOLICYACTINPROGRESS | 0 | 415 |
| IWMRSNCODEPOLICYNOTAVAIL | 0 | C13 |
| IWMRSNCODEPOLICYUNDEFINED | 0 | 416 |
| IWMRSNCODEPRIMARYNOTOWNCONN | 0 | 83F |
| IWMRSNCODEPROCNAMEBLANK | 0 | C24 |
| IWMRSNCODEQMGRNOTACTIVE | | |

| Name | Hex Offset | Hex Value |
|--------------------------------|------------|-----------|
| IWMRSNCODEQUEUENOTDEFINED | 0 | C1D |
| IWMRSNCODERECTIONNOTFOUND | 0 | 861 |
| IWMRSNCODEREPORTINGSUSP | 0 | 43A |
| IWMRSNCODERESOURCENOTFOUND | 0 | C02 |
| IWMRSNCODERETURNCONT | 0 | 429 |
| IWMRSNCODEROMONENV | 0 | 407 |
| IWMRSNCODEROPARENV | 0 | 87E |
| IWMRSNCODEROUTERNOTACTIVE | 0 | 87F |
| IWMRSNCODEROUTINGTABLEEXISTS | 0 | C26 |
| IWMRSNCODERPTNOWORKELT | 0 | 865 |
| IWMRSNCODERSVDNOT0 | 0 | C05 |
| IWMRSNCODESAFCHECKFAILED | 0 | 827 |
| IWMRSNCODESCHENVNOSYSTEM | 0 | C41 |
| IWMRSNCODESCHENVNOTAVAILABLE | 0 | 42A |
| IWMRSNCODESCHENVNOTFOUND | 0 | 427 |
| IWMRSNCODESDEINVALID | 0 | 426 |
| IWMRSNCODESECEENVCREATEFAILED | 0 | F04 |
| IWMRSNCODESECEENVDELETEFAILED | 0 | C17 |
| IWMRSNCODESECEENVOUTSTANDING | 0 | C18 |
| IWMRSNCODESECONDARYWORKDELETED | 0 | 851 |
| IWMRSNCODESECONDARYWORKEXISTS | 0 | 42F |
| IWMRSNCODESELECTEDWORKACTIVE | 0 | 864 |
| IWMRSNCODESELECTINPROGRESS | 0 | 85A |
| IWMRSNCODESERVERALREADYREG | 0 | 843 |
| IWMRSNCODESERVEREXISTS | 0 | 419 |
| IWMRSNCODESERVERNOTFOUND | 0 | C1F |
| IWMRSNCODESERVERNOTREGISTERED | 0 | 42E |
| IWMRSNCODESERVERNOTSTARTED | 0 | 418 |
| IWMRSNCODESERVERUNAVAIL | 0 | C1C |
| IWMRSNCODESERVICENOTENABLED | 0 | C16 |
| IWMRSNCODESRBMODE | 0 | 840 |
| IWMRSNCODESRBUSERKEYTKN | 0 | 801 |
| | 0 | 809 |

| Name | Hex Offset | Hex Value |
|---------------------------------|------------|-----------|
| IWMRSNCODESTATECHANGED | 0 | C0B |
| IWMRSNCODESTATEINVDATARET | 0 | 40F |
| IWMRSNCODESTATEINVNO DATARET | 0 | 832 |
| IWMRSNCODESTOPTASK | 0 | C3B |
| IWMRSNCODESTRUCTUREFULL | 0 | C37 |
| IWMRSNCODESTRUCTUREUNAVAILABLE | 0 | C36 |
| IWMRSNCODESUSPENDED | 0 | C0A |
| IWMRSNCODESVDEFIDWRONG | 0 | C29 |
| IWMRSNCODESXDEINVALID | 0 | F05 |
| IWMRSNCODESYSEVENTNOWORKELT | 0 | C03 |
| IWMRSNCODESYSINFOINCOMPLETE | 0 | 420 |
| IWMRSNCODESYSTEMIGNORED | 0 | 424 |
| IWMRSNCODESYSTEMSPACE | 0 | C2F |
| IWMRSNCODESYSTYPENOTREG | 0 | 869 |
| IWMRSNCODETASKTERM | 0 | 826 |
| IWMRSNCODETCBALREADYASSOC | 0 | 819 |
| IWMRSNCODETCBNOTOWNERUSERKEYTKN | 0 | 80A |
| IWMRSNCODETKNINDMSMCH | 0 | 875 |
| IWMRSNCODETKNNOMATCH | 0 | 410 |
| IWMRSNCODETOKENNOTCURRENT | 0 | C2B |
| IWMRSNCODETOOMANYREGISTRATIONS | 0 | 882 |
| IWMRSNCODETOOMANYSELECT | 0 | 854 |
| IWMRSNCODETOOMANYSWITCHES | 0 | C3E |
| IWMRSNCODETOOMANYSYSTEMS | 0 | C39 |
| IWMRSNCODEUNABLETORETRIEVETMP | 0 | C3F |
| IWMRSNCODEUNEXPECTEDCALL | 0 | 87B |
| IWMRSNCODEUNKNOWNEXPORTTOKEN | 0 | 432 |
| IWMRSNCODEUNKNOWNQUEUE | 0 | 421 |
| IWMRSNCODEUUPLEVELOBJECT | 0 | C38 |
| IWMRSNCODEUSERKEYCONNTKN | 0 | 837 |
| IWMRSNCODEUSERKEYNOMONTKN | 0 | 813 |
| IWMRSNCODEUSERKEYWRONGPRIM | 0 | 814 |
| IWMRSNCODEUSERKEYWRONGSERVER | | |

IWMYCON Cross Reference

| Name | Hex Offset | Hex Value |
|--------------------------|------------|-----------|
| | 0 | 815 |
| IWMRSNCODEWLMQMBADTYPE | 0 | 853 |
| IWMRSNCODEWLMSESVBADAPPL | 0 | 849 |
| IWMRSNCODEWLMSESVBADSSN | 0 | 84A |
| IWMRSNCODEWLMSESVBADSSST | 0 | 84B |
| IWMRSNCODEWLMSESVBADTYPE | 0 | 84E |
| IWMRSNCODEWORKNOTFOUND | 0 | 408 |
| IWMRSNCODEWRONGAELIMITS | 0 | 87C |
| IWMRSNCODEWRONGASID | 0 | C31 |
| IWMRSNCODEWRONGENCLAVE | 0 | 845 |
| IWMRSNCODEWRONGEXECTOKEN | 0 | 84F |
| IWMRSNCODEWRONGHOME | 0 | 82F |
| IWMRSNCODEWRONGMNGTSK | 0 | 874 |
| IWMRSNCODEWRONGMODE | 0 | C2E |
| IWMRSNCODEWRONGNUMEU | 0 | 85C |
| IWMRSNCODEWRONGSRVLMT | 0 | 873 |
| IWMRSNCODEXDEINVALID | 0 | F03 |
| IWMRSNCODEXMEMMODE | 0 | 841 |
| IWMRSNCODEXMEMUSERKEYTKN | 0 | 802 |
| IWMRSNMISSINGACRO | 0 | 83C |
| IWMRSNNOGOALMODESYSTEMS | 0 | C12 |
| PB | 0 | |
| PB_ABNORMAL_FLAGS | 5C | |
| PB_ABNORMAL_LOCALMVS | 5C | 1 |
| PB_ABNORMAL_SYSPLEX | 5C | 2 |
| PB_ARRTIME | 28 | |
| PB_AS_ID | 96 | |
| PB_ASSOCIATE | 5 | 40 |
| PB_BP_RESTKN | C8 | |
| PB_CF_RESTKN | D0 | |
| PB_CLEAR_FLD | 20 | |
| PB_CREATE | 0 | |
| PB_CURRENT_VERSION | 4 | 5 |
| PB_DEP_MIRROR_PTR | 54 | |
| PB_DEP_MIRROR_TKN | 54 | |
| PB_DEP_MONTKN | 50 | |
| PB_DEP_MONTKN_HIBIT | 50 | 0 |

| Name | Hex Offset | Hex Value |
|-----------------------------|------------|-----------|
| PB_DU | 3C | |
| PB_DU_ASCB | 38 | |
| PB_DU_SRB | 3C | 1 |
| PB_DURATION | 44 | C0 |
| PB_DURATION_BEGIN_TO_END | 44 | 80 |
| PB_DURATION_EXECUTION | 44 | 40 |
| PB_ETOKEN | C0 | |
| PB_EXSTARTTIME | 30 | |
| PB_FLAGS | 5 | |
| PB_FLAGS_MASK | 5 | C0 |
| PB_FROM_LOCALMVS | 42 | 40 |
| PB_FROM_NETWORK | 42 | 10 |
| PB_FROM_NONE | 42 | 8 |
| PB_FROM_SYSPLEX | 42 | 20 |
| PB_ID | 0 | |
| PB_ID_CONST | 0 | C24040 |
| PB_ID_VERSION | 0 | |
| PB_INIT | 42 | 80 |
| PB_LU62FMT_FULL_LU_CC_36 | 94 | 4 |
| PB_LU62FMT_FULL_LU_NO_CC_27 | 94 | 2 |
| PB_LU62FMT_FULL_LU_0_CC_28 | 94 | 3 |
| PB_LU62FMT_LU_NO_CC_27 | 94 | 1 |
| PB_LU62FMT_OTHER | 94 | 0 |
| PB_LU62TKN | 98 | |
| PB_LU62TKN_FMT | 94 | |
| PB_MAX_LU62TKN_LEN | 94 | 24 |
| PB_MIRROR_PTR | 14 | |
| PB_MIRROR_TKN | 14 | |
| PB_MONENV_INFO | 44 | |
| PB_NEW_LENGTH | 6 | |
| PB_OWNER_DATA | 20 | |
| PB_OWNER_TKN | 24 | |
| PB_PARENT_HOME_ASID | 4A | |
| PB_PARENT_MIRROR_PTR | 4C | |
| PB_PARENT_MIRROR_TKN | 4C | |
| PB_PARENT_MONTKN | 48 | |
| PB_PARENT_MONTKN_HIBIT | 48 | 0 |
| PB_RELATE | 42 | 1 |
| PB_REPORT_ONLY | 5 | 80 |

| Name | Hex Offset | Hex Value |
|--------------------------------------|---------------|--------------|
| PB_RSVD00BC | BC | |
| PB_RSVD00F8 | F8 | |
| PB_RSVD0018 | 18 | |
| PB_RSVD0040 | 40 | |
| PB_RSVD0045 | 45 | |
| PB_RSVD0078 | 78 | |
| PB_RSVD0091 | 91 | |
| PB_RSVD0095 | 95 | |
| PB_SC_TKN | 58 | |
| PB_SCOPE_SHARED | | |
| | 42 | 4 |
| PB_SOURCELU | 80 | |
| PB_SRB_SAMEDU_NO | | |
| | 3C | 1 |
| PB_SRB_SAMEDU_YES | | |
| | 3C | 3 |
| PB_STATE | 41 | |
| PB_STATE_ACTIVE | | |
| | 41 | 1 |
| PB_STATE_ACTIVE_APPLIC | | |
| | 41 | 4 |
| PB_STATE_ACTIVE_SUBSYS | | |
| | 41 | 1 |
| PB_STATE_FREE | | |
| | 41 | 0 |
| PB_STATE_IDLE | | |
| | 41 | 3 |
| PB_STATE_READY | | |
| | 41 | 2 |
| PB_STATE_WAITING_BUFFER_POOL_CF | | |
| | 41 | F2 |
| PB_STATE_WAITING_BUFFER_POOL_CF_IO | | |
| | 41 | F3 |
| PB_STATE_WAITING_BUFFER_POOL_IO | | |
| | 41 | F1 |
| PB_STATE_WAITING_CF_IO | | |
| | 41 | F4 |
| PB_STATE_WAITING_CONV | | |
| | 41 | F8 |
| PB_STATE_WAITING_DISTRIB | | |
| | 41 | F5 |
| PB_STATE_WAITING_IO | | |
| | 41 | FF |
| PB_STATE_WAITING_LATCH | | |
| | 41 | F7 |
| PB_STATE_WAITING_LOCK | | |
| | 41 | FE |
| PB_STATE_WAITING_MISC | | |
| | 41 | FD |
| PB_STATE_WAITING_OTHER_PRODUCT | | |
| | 41 | FC |
| PB_STATE_WAITING_REGIST_TO_WORKTABLE | | |
| | 41 | E3 |
| PB_STATE_WAITING_REGULAR_THREAD | | |
| | 41 | E2 |
| PB_STATE_WAITING_SESS_LOCALMVS | | |
| | 41 | F9 |
| PB_STATE_WAITING_SESS_NETWORK | | |
| | 41 | FB |
| PB_STATE_WAITING_SESS_SYSPLEX | | |
| | 41 | FA |
| PB_STATE_WAITING_SSL_THREAD | | |
| | 41 | E1 |
| PB_STATE_WAITING_TIMER | | |
| | 41 | F6 |

| Name | Hex Offset | Hex Value |
|-------------------------|---------------|--------------|
| PB_STATE_WAITING_TYPE1 | | |
| | 41 | D1 |
| PB_STATE_WAITING_TYPE10 | | |
| | 41 | DA |
| PB_STATE_WAITING_TYPE11 | | |
| | 41 | DB |
| PB_STATE_WAITING_TYPE12 | | |
| | 41 | DC |
| PB_STATE_WAITING_TYPE13 | | |
| | 41 | DD |
| PB_STATE_WAITING_TYPE14 | | |
| | 41 | DE |
| PB_STATE_WAITING_TYPE15 | | |
| | 41 | DF |
| PB_STATE_WAITING_TYPE2 | | |
| | 41 | D2 |
| PB_STATE_WAITING_TYPE3 | | |
| | 41 | D3 |
| PB_STATE_WAITING_TYPE4 | | |
| | 41 | D4 |
| PB_STATE_WAITING_TYPE5 | | |
| | 41 | D5 |
| PB_STATE_WAITING_TYPE6 | | |
| | 41 | D6 |
| PB_STATE_WAITING_TYPE7 | | |
| | 41 | D7 |
| PB_STATE_WAITING_TYPE8 | | |
| | 41 | D8 |
| PB_STATE_WAITING_TYPE9 | | |
| | 41 | D9 |
| PB_SUBSYS_TYPE | | |
| | 8 | |
| PB_SUBSYSNM | C | |
| PB_SWITCH_INFO | | |
| | 43 | |
| PB_SWITCH_LOCALMVS | | |
| | 43 | 1 |
| PB_SWITCH_NETWORK | | |
| | 43 | 3 |
| PB_SWITCH_SYSPLEX | | |
| | 43 | 2 |
| PB_TRANS_TTOKEN | | |
| | D8 | |
| PB_TRXCLASS | 70 | |
| PB_TRXNAME | 68 | |
| PB_USERID | 60 | |
| PB_VERSION | 4 | |
| PB_VERSION1 | 4 | 1 |
| PB_VERSION2 | 4 | 2 |
| PB_VERSION3 | 4 | 3 |
| PB_VERSION4 | 4 | 4 |
| PB_VERSION5 | 4 | 5 |
| PB_WORK_ATTRIBUTES | | |
| | 60 | |
| PB_WORKDEF | 42 | |

IXCYAMDA Programming Interface information

Programming Interface information

IXCYAMDA

End of Programming Interface information

IXCYAMDA Heading Information

Common Name: XCF Accounting and Measurement Data Area
Macro ID: IXCYAMDA
DSECT Name: AMDAREA AMDPATH AMDMPEND AMDSYS AMDSD
Owning Component: Cross System Coupling Facility (SCXCF)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: User-supplied
 Key: Key User-supplied
 Residency: User-supplied
Size: Variable
 AMDPATH1 -- X'00BC' bytes
 AMDSYS1 -- X'0080' bytes
 AMDMEM -- X'014C' bytes
 AMDMEMDI -- X'0040' bytes
 AMDAREA -- X'0040' bytes
 AMDPATH -- X'0078' bytes
 AMDMPEND -- X'004C' bytes
 AMDSYS -- X'004C' bytes
 AMDSD -- X'0030' bytes
 AMCTCHDD -- X'0020' bytes
 AMSTRHDD -- X'0020' bytes
 AMLSTHDD -- X'0020' bytes
 Note that AMCTCHDD, AMSTRHDD, and AMLSTHDD map storage contained within the AMDPATH and AMDMPEND data records.
Created by: IXCA1MG
Pointed to by: DATAAREA_ADDR field in MG parameter list
Serialization: None required
Function: IXCYAMDA maps the data returned by the XCF Measurement Gatherer Service (IXCMG).

IXCYAMDA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | AMDAREA | Data area returned to caller |
| 0 | (0) | SIGNED | 4 | AMDATLEN | Total length of output data area needed to contain all the requested information. This length includes the area for the records that were returned on this call. |
| 4 | (4) | SIGNED | 4 | AMDA#PTH | Number of path entries |
| 8 | (8) | SIGNED | 4 | AMDALPTH | Length of path data |
| 12 | (C) | SIGNED | 4 | AMDAOPTH | Offset to path entries |
| 16 | (10) | SIGNED | 4 | AMDA#MPE | Number of pending message entries |
| 20 | (14) | SIGNED | 4 | AMDALMPE | Length of pending message data |
| 24 | (18) | SIGNED | 4 | AMDAOMPE | Offset to pending message entries |
| 28 | (1C) | SIGNED | 4 | AMDA#SYS | Number of system entries |
| 32 | (20) | SIGNED | 4 | AMDALSYS | Length of system data |
| 36 | (24) | SIGNED | 4 | AMDAOSYS | Offset to system entries |
| 40 | (28) | SIGNED | 4 | AMDA#SD | Number of source/destination entries. |
| 44 | (2C) | SIGNED | 4 | AMDALSD | Length of source/destination data entries |
| 48 | (30) | SIGNED | 4 | AMDAOSD | Offset to source/destination entries. |
| 52 | (34) | SIGNED | 4 | AMDA#MUS | Number of member message use summary entries |
| 56 | (38) | SIGNED | 4 | AMDALMUS | Length of member message space summary entries |
| 60 | (3C) | SIGNED | 4 | AMDAOMUS | Offset to member message use summary entries |
| 60 | (3C) | X'40' | 0 | AMDAREA_LEN | ""-AMDAREA" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|--|-----|--|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | AMDPATH | Path activity entry, placed in the data area first if requested |
| 0 | (0) | BITSTRING.... ...1 | 1 | AMDPTYPE AMDPTYP | Indication of type of data "X'01" Indicates path data |
| 1 | (1) | BITSTRING | 1 | | Reserved and set to 0 |
| 2 | (2) | SIGNED | 2 | AMDPLENT | Length of a path entry |
| 4 | (4) | CHARACTER | 8 | AMDPNAME | System name |
| 12 | (C) | CHARACTER | 4 | AMDPDEV | Device number in EBCDIC of CTC device for signalling path. Blanks if not CTC device. |
| 16 | (10) | SIGNED 1... .... .1... | 1 | AMDPDIR AMDPIB AMDPOUTB | Direction of path "X'80" Inbound path "X'40" Outbound path |
| 17 | (11) | CHARACTER | 3 | | Reserved and set to 0 |
| 20 | (14) | CHARACTER | 8 | AMDPONME | Name of system on other end if known, otherwise blanks. |
| 28 | (1C) | CHARACTER | 4 | AMDPODEV | Device number in EBCDIC on the other end if known, otherwise blanks. |
| 32 | (20) | CHARACTER | 4 | AMDPFLAG | Flags |
| 32 | (20) | SIGNED 1... .... .1... .... ..1. .... ...1 1... | 1 | AMDPSTAT AMDPSTRT AMDPREST AMDWORK AMDSTOP AMDPLINK | Path status "X'80" Starting "X'40" Restarting "X'20" Working "X'10" Stopping "X'08" Waiting for completion of initial protocol used to establish communication link. |
| | |1.. | | AMDPNOP | "X'04" Not operational. Path defined to XCF but not usable until hardware and/or definition problems are resolved |
| | |1. .... ...1 | | AMDFAIL AMDPRBLD | "X'02" Stop failed. "X'01" Rebuilding |
| 33 | (21) | SIGNED 1... .... .1... | 1 | AMDPSTA2 AMDQSCG AMDQSCD | More path status flags "X'80" Quiescing "X'40" Quiesced |
| 34 | (22) | CHARACTER | 2 | | Reserved and set to 0 |
| 36 | (24) | SIGNED | 4 | AMDPMRET | Path retry limit |
| 40 | (28) | SIGNED | 4 | AMDP#RET | Current path retry count |
| 44 | (2C) | SIGNED | 4 | AMDP#RST | Cumulative number of restarts |
| 48 | (30) | SIGNED | 4 | AMDPMXMS | Path maximum message limit. This value is the customer specified value for the number of 1K byte blocks of message buffer space associated with this signalling path. For an inbound path, this is the maximum amount of buffer space that can be used by the path. For an outbound path, this is the amount of buffer space contributed by this path to the total buffer space available for sending messages to the system on the other end using the transport class to which this path is assigned. |
| 52 | (34) | SIGNED | 4 | AMDP#SIG | For an outbound (inbound) path, the total number of signals sent (received) over the path. N/A for structure summary (Hardware type 2) |
| 56 | (38) | SIGNED | 4 | AMDP#ACT | For an outbound path, the current number of signals pending transfer on the path. N/A for structure summary (Hardware type 2) |
| 56 | (38) | SIGNED | 4 | AMDP#IBR | For an inbound path, the total number of times a request for a new message buffer was refused due to the maximum message limit for the path. N/A for structure summary (Hardware type 2) |
| 60 | (3C) | SIGNED | 4 | AMDP#SUS | For an outbound path, the total number of signal requests satisfied by this path while not busy. For an inbound path, reserved and set to 0. N/A for structure summary (Hardware type 2) |
| 64 | (40) | SIGNED | 4 | AMDP#APP | For an outbound path, the total number of signal requests satisfied by this path while busy. N/A for structure summary (Hardware type 2) |
| 64 | (40) | SIGNED | 4 | AMDPIOXT | For an inbound path, the average I/O transfer time, expressed in microseconds, for the most recently received signals. Zero if not available (no recent signals or sending system does not provide the necessary data). 'FFFFFFF'x if overflow (implies average exceeds approximately 35 minutes). N/A for structure summary (Hardware type 2) |

IXCYAMDA Map

| Offsets | | | | | |
|---------|------|------------|-----|-------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 68 | (44) | SIGNED | 4 | AMDP#USE | Count of the current number of 1K byte blocks of message buffer space in use by this signalling path. N/A for structure summary (Hardware type 2) |
| 72 | (48) | SIGNED | 4 | AMDPMGRS | Measurement Gatherer Reset Data indicator, changes when counts for this path entry have been reset. Use this token to determine whether or not the data collected from two different invocations of the IXCMG service are comparable. If the token is the same for both sets of data, it makes sense to compare the data. If the token is different, the two sets of data are not comparable since they refer to two different instances of the indicated signalling path. |
| 76 | (4C) | CHARACTER | 8 | AMDPTCN | Transport Class Name. For an outbound path, the class to which the path is assigned. Blanks for an inbound path. |
| 84 | (54) | SIGNED | 4 | AMDPPHDT | Type of hardware being used as the transport mechanism for the signalling path. See AMHDTxxx constants. |
| 88 | (58) | CHARACTER | 32 | AMDPPHDD | Path hardware descriptor. See AMxxxHDD mappings below. |
| 88 | (58) | X'78' | 0 | AMDPATH_LEN | **-AMDPATH" |

| Offsets | | | | | |
|---------|------|------------|-----|---------------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | AMDPATH1 | Path activity entry, returned when AMDALEVEL=1 specified on IXCMG. |
| 0 | (0) | CHARACTER | 120 | AMDPATH1_BUFFLEN | Mapped by AMDPATH |
| 120 | (78) | SIGNED | 4 | | Maximum number of bytes of message data that will fit into the signal buffers that are currently used by the signalling path. Zero if signal buffers are not relevant to the path. N/A for structure summary (Hardware type 2) |
| 124 | (7C) | SIGNED | 4 | AMDPATH1_TRANSFERRATE | For an outbound path, transfer rate value expressed in microseconds, that was last reported by the inbound side of the path. Zero if not available (no recent signals or sending system does not provide the necessary data or path is not relevant for signal transfers). 'FFFFFFFF'x if overflow (implies average exceeds approximately 35 minutes). N/A for inbound paths. N/A for structure summary (Hardware type 2) |
| 128 | (80) | SIGNED | 4 | AMDPATH1_#PENDINGDELIVERY | For an inbound path, the number of signal buffers currently engaged in some phase of delivering a message that was received over the path. N/A for outbound paths. N/A for structure summary (Hardware type 2) |
| 132 | (84) | SIGNED | 4 | AMDPATH1_SIGNAL# | For an outbound path, the signal number assigned to the most recent signal queued for transfer over the path (contrast with AMDP#SIG which includes only user signals). For an inbound path, the signal number of the signal that was most recently received. These numbers are not necessarily ever increasing. N/A for structure summary (Hardware type 2) |
| 136 | (88) | CHARACTER | 52 | AMDPATH1_LEN | Reserved for future use |
| 136 | (88) | X'BC' | 0 | | **-AMDPATH1" |

| Offsets | | | | | |
|---------|-----|------------|-----|------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | AMDMPEND | Pending messages entry |
| 0 | (0) | BITSTRING | 1 | AMDMTYPE | Indication of type of data |
| | |1. | | AMDMTYPM | "X'02" Indicates pending message data |
| 1 | (1) | BITSTRING | 1 | | Reserved and set to 0 |
| 2 | (2) | SIGNED | 2 | AMDMLENT | Length of a pending message entry |
| 4 | (4) | CHARACTER | 4 | AMDMDDEVN | Device number (EBCDIC) of CTC device for signalling path on which message is pending. Blanks if not associated with any signalling path or not a CTC device. |

| Offsets | | | | | |
|---------|------|------------|-----|--------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 8 | (8) | BITSTRING | 8 | AMDMTOKN | Member token of message sender |
| 16 | (10) | SIGNED | 2 | AMDMA SID | ASID of member sending message |
| 18 | (12) | SIGNED | 2 | AMDMHOME | Home ASID that initiated message out request |
| 20 | (14) | CHARACTER | 8 | AMDMTSNM | Name of system that is target of message |
| 28 | (1C) | SIGNED | 4 | AMDMMSGSL | Length of message which is pending |
| 32 | (20) | CHARACTER | 8 | AMDMTCN | Name of transport class selected for transferring the message, blanks if class not yet selected. |
| 40 | (28) | SIGNED | 4 | AMDMPHDT | Type of hardware being used as the transport mechanism for the signalling path. Indicates not applicable if the message is not currently pending transfer over a particular signalling path. |
| 44 | (2C) | CHARACTER | 32 | AMDMPHDD | Path hardware descriptor. Not applicable if message is not currently pending transfer over a particular signalling path. See AMxxxHDD mappings below. |
| 44 | (2C) | X'4C' | 0 | AMDMPEND_LEN | "*-AMDMPEND" |

| Offsets | | | | | |
|---------|------|---|-----|---|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | AMDSYS | System entry. There are two or more system entries per remote system (1 inbound entry plus 1 outbound entry per transport class). One entry per transport class for the local system. |
| 0 | (0) | BITSTRING.... .1.. | 1 | AMDSYTYP AMDSYTYE | Indication of type of data "X'04" Indicates system data |
| 1 | (1) | BITSTRING | 1 | | Reserved and set to 0 |
| 2 | (2) | SIGNED | 2 | AMDSYLEN | Length of system entry |
| 4 | (4) | CHARACTER | 8 | AMDSYNME | System name, blanks if not known |
| 12 | (C) | SIGNED 1... .... .1.. .... ..1. | 1 | AMDSYDIR AMDSYIN AMDSYOUT AMDSYLCL | Direction "X'80" Inbound "X'40" Outbound "X'20" Local |
| 13 | (D) | CHARACTER | 3 | | Reserved and set to 0 |
| 16 | (10) | SIGNED | 4 | AMDSYPH | Current number of paths in service. If local entry, set to 0. If outbound entry, count is for indicated transport class. |
| 20 | (14) | SIGNED | 4 | AMDSYBSY | Total number of times a no buffer condition occurred. Subject to wrapping. If local or outbound entry, count is for indicated transport class. |
| 24 | (18) | SIGNED | 4 | AMDSYNOP | Total number of times a no path condition occurred. Subject to wrapping. If local entry, set to 0. If outbound entry, count is for indicated transport class. |
| 28 | (1C) | SIGNED | 4 | AMDSYMXB | Current maximum number of 1K byte blocks of message buffer space permitted for system. If local or outbound entry, count is for indicated transport class. |
| 32 | (20) | SIGNED | 4 | AMDSYUSE | Current number of 1K byte blocks of message buffer space in use on system. If local or outbound system entry, count is for indicated transport class. |
| 36 | (24) | SIGNED | 4 | AMDSYNUM | System Token. Changes when all counts for the system named by AMDSYNME have been reset. Use this token to determine whether or not the data collected from two different invocations of the IXCMG service are comparable. If the token is the same for both sets of data, it makes sense to compare the data. If the token is different, the two sets of data are not comparable since they refer to two different instances of the named system. |
| 40 | (28) | SIGNED | 4 | AMDSYBIG | Total number of messages sent whose length exceeded the buffer size that supports the defined transport class length. Zero if inbound entry. Subject to wrapping. |
| 44 | (2C) | SIGNED | 4 | AMDSYFIT | Total number of messages sent whose length fit the buffer size that supports the defined transport class length. Zero if inbound entry. Subject to wrapping. |
| 48 | (30) | SIGNED | 4 | AMDSYSML | Total number of messages sent whose length was smaller than buffer size that supports the defined transport class length. Zero if inbound entry. Subject to wrapping. |

IXCYAMDA Map

| Offsets | | | | | |
|---------|------|------------|-----|------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 52 | (34) | SIGNED | 4 | AMDSYOVR | Total number of messages sent whose length exceeded the buffer size for which the signalling service was optimized. Zero if inbound entry. Subject to wrapping. |
| 56 | (38) | SIGNED | 4 | AMDSYTCL | Length of longest message that fits the buffer size that supports the defined transport class length. Zero if inbound entry. |
| 60 | (3C) | CHARACTER | 8 | AMDSYTCN | Transport Class Name to which the data applies. Blanks if inbound entry. |
| 68 | (44) | SIGNED | 4 | AMDSYGRS | Measurement Gatherer Reset Data indicator, changes when counts for the transport class named by AMDSYTCN have been reset. Note that if AMDSYNUM field has changed, then counts have been reset even though AMDSYGRS may not have changed. Zero if inbound entry. Use this token to determine whether or not the data collected from two different invocations of the IXCMG service are comparable. If the token is the same for both sets of data, it makes sense to compare the data. If the token is different, the two sets of data are not comparable since they refer to two different instances of the indicated transport class definition |
| 72 | (48) | SIGNED | 4 | AMDSYSMX | Customer defined maxmsg value. Default number of 1K byte blocks of message buffer space. If local or outbound entry, count is for transport class. This value can be modified via SETXCF command. |
| 72 | (48) | X'4C' | 0 | AMDSYS_LEN | "*-AMDSYS" |

| Offsets | | | | | |
|---------|------|------------|-----|-------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | AMDSYS1 | System entry. This is the mapping to use for system data when the IXCMG service is invoked with AMDALEVEL >= 1. NOTE: These records are variable length. AMDSYLEN *must* be used to increment to the next AMDSYS1 entry. |
| 0 | (0) | CHARACTER | 112 | AMDSYS1F | This area is mapped by AMDSYS as usual. Reserved. |
| 0 | (0) | CHARACTER | 76 | | |
| 76 | (4C) | CHARACTER | 32 | | |
| 108 | (6C) | SIGNED | 4 | AMDSYS1_#MSGIZES | Number of entries in the AMDSYS1_MsgSizes array. Could be zero. |
| 112 | (70) | CHARACTER | 1 | AMDSYS1V (0) | Array of msg size data |
| 112 | (70) | CHARACTER | 16 | AMDSYS1_MSGIZES | |
| 112 | (70) | SIGNED | 4 | AMDSYS1_BUFFLEN | maximum number of bytes of message data that fit in the message buffer |
| 116 | (74) | SIGNED | 4 | AMDSYS1_SIGNALCNT | Number of signals that could have used a signal buffer of the indicated size. Subject to wrapping. |
| 120 | (78) | CHARACTER | 8 | | Reserved. |
| 120 | (78) | X'80' | 0 | AMDSYS1_LEN | "*-AMDSYS1" |

| Offsets | | | | | |
|---------|------|------------|-----|------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | AMDSD | Source/destination entry, one per member. |
| 0 | (0) | BITSTRING | 1 | AMDSTYPE | Indication of type of data |
| | | 1... | | AMDSTYPS | "X'08" Indicates source/destination data |
| 1 | (1) | BITSTRING | 1 | | Reserved and set to 0 |
| 2 | (2) | SIGNED | 2 | AMDSLENT | Length of a source/destination entry |
| 4 | (4) | CHARACTER | 8 | AMDSGRP | Eight byte group name |
| 12 | (C) | CHARACTER | 16 | AMDSMEM | Member name |
| 28 | (1C) | SIGNED | 4 | AMDSSCNT | Total number of signals sent by the member |
| 32 | (20) | SIGNED | 4 | AMDSRCNT | Total number of signals received by the member |

| Offsets | | | | | |
|---------|------|------------|-----|------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 36 | (24) | SIGNED | 4 | AMDSMGRS | Measurement Gatherer Reset Data indicator, changes when counts for this member entry have been reset. Use this token to determine whether or not the data collected from two different invocations of the IXCMG service are comparable. If the token is the same for both sets of data, it makes sense to compare the data. If the token is different, the two sets of data are not comparable since they refer to two different instances of the indicated member. |
| 40 | (28) | CHARACTER | 8 | AMDSSNAM | Name of system on which member resides |
| 40 | (28) | X'30' | 0 | AMDSD_LEN | **AMDSD" |

| Offsets | | | | | |
|---------|------|------------|-----|--------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | AMDMEM | Member data entry |
| 0 | (0) | CHARACTER | 268 | AMDMEM_HDR | |
| 0 | (0) | BITSTRING | 1 | AMDMEM_TYPE | Indicates type of data |
| | | ...1 | | AMDMEM_TYPEMEM | |
| 1 | (1) | BITSTRING | 1 | | "X'10" Indicates member data |
| 2 | (2) | SIGNED | 2 | AMDMEM_LENGTH | Reserved and set to 0 |
| | | | | | Number of bytes of data returned in this entry. CAUTION: records are variable length since a variable number of AMDMEMDI data items may be returned. |
| 4 | (4) | CHARACTER | 8 | AMDMEM_GROUPNAME | XCF group name |
| 12 | (C) | CHARACTER | 16 | AMDMEM_MEMBERNAME | XCF Member name |
| 28 | (1C) | CHARACTER | 8 | AMDMEM_JOBNAME | Member's jobname |
| 36 | (24) | CHARACTER | 8 | AMDMEM_SYSNAME | Name of system on which member resides |
| 44 | (2C) | BITSTRING | 8 | AMDMEM_MEMBERTOKEN | XCF member token for the indicated member. Use this token to determine whether or not the data collected from two different invocations of the IXCMG service are comparable. If the token is the same for both sets of data, it makes sense to compare the data. If the token is different, the two sets of data are not comparable since they refer to two different instances of the indicated member. |
| 52 | (34) | SIGNED | 4 | AMDMEM_SYSTOKEN | XCF system token for the system where the member resides. |
| 56 | (38) | CHARACTER | 2 | | reserved |
| 58 | (3A) | SIGNED | 2 | AMDMEM_ASID | Member's address space |
| 60 | (3C) | SIGNED | 4 | AMDMEM_MSGOACCEPTED | Cumulative count of messages accepted for delivery by the IXCMGO service. Subject to wrapping. |
| 64 | (40) | SIGNED | 4 | AMDMEM_MSGONOBUFFER | Total number of messages rejected by the IXCMGO service for lack of a message buffer. Subject to wrapping. |
| 68 | (44) | SIGNED | 4 | AMDMEM_MSGIRECEIVED | Cumulative count of messages that were to be delivered to the member. Includes both local and remote messages. Subject to wrapping. |
| 72 | (48) | SIGNED | 4 | AMDMEM_MSGICURRWORKITEMS | The number of signal work items currently queued for processing. Usually a work item represents a message that is to be delivered, but they could include internal XCF work that needs to be performed. |
| 76 | (4C) | SIGNED | 4 | AMDMEM_MSGITRANSFERS | Cumulative count of remote signals that were received on behalf of the member. Subject to wrapping. |
| 80 | (50) | SIGNED | 4 | AMDMEM_MSGOTRANSFERTIME | |

IXCYAMDA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|--------------------------|--|
| Dec | Hex | | | | |
| | | | | | For inbound remote signals, the average message transfer time, expressed in microseconds, for the most recently received signals. Zero if not available (no recent signals or sending system does not provide the necessary data). 'FFFFFFF'x if overflow (implies average exceeds approximately 35 minutes). Message transfer is measured from the time that XCF accepts delivery of the message on the sending system to the time that (each signal for the) message arrives on the target system and can be scheduled/queued/collected for delivery to the target member. |
| 84 | (54) | SIGNED | 4 | AMDMEM_GRPXRECEIVED | Cumulative count of group events that were to be delivered to the member. Subject to wrapping. |
| 88 | (58) | SIGNED | 4 | AMDMEM_GRPXCURRWORKITEMS | The number of group work items currently queued for processing. |
| 92 | (5C) | CHARACTER | 172 | | Reserved |
| 264 | (108) | SIGNED | 4 | AMDMEM_#DATAITEMS | Number of data items in the following array |
| 268 | (10C) | CHARACTER | 64 | AMDMEM_DATAITEMS | Array of data items. Each entry is mapped by AMDMEMDI. |
| 268 | (10C) | X'14C' | 0 | AMDMEM_LEN | **-AMDMEM" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------------------|-----|------------------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | AMDMEMDI | Member data item |
| 0 | (0) | CHARACTER | 4 | AMDMEMDI_HDR | |
| 0 | (0) | SIGNED | 1 | AMDMEMDI_DATATYPE | Indicates the format of AMDMEMDI_Data. Your program should skip data items whose type it does not recognize. New data types may be added at any time. |
| 1 | (1) | SIGNED | 1 | AMDMEMDI_SUBJECT | Subject of the data item |
| 2 | (2) | BITSTRING 1... | 1 | AMDMEMDI_FLAGS AMDMEMDI_STALLED | "X'80'" ON if data item could be related to a hang condition. |
| 3 | (3) | CHARACTER | 1 | | Reserved |
| 4 | (4) | CHARACTER | 60 | AMDMEMDI_DATA | |
| 4 | (4) | CHARACTER | 60 | AMDMEMDI_EXITROUTINES | DataType 001: exits |
| 4 | (4) | ADDRESS | 4 | AMDMEMDIXR_TOKEN | exit routine token |
| 8 | (8) | CHARACTER | 2 | AMDMEMDIXR_FUNCTIONCODE | EBCDIC eyecatcher to indicate function to be performed. |
| 10 | (A) | CHARACTER | 2 | | Reserved |
| 12 | (C) | CHARACTER | 8 | AMDMEMDIXR_TODWHENCALLED | TOD when exit was called. Hex zero if exit not yet called. |
| 20 | (14) | CHARACTER | 8 | AMDMEMDIXR_TODWHENRETURNED | TOD when exit returned. Hex zero if exit not yet returned. |
| 28 | (1C) | SIGNED | 4 | AMDMEMDIXR_PROCESSTAGE | If exit not yet returned, identifies current stage of processing. |
| 32 | (20) | CHARACTER | 32 | | reserved |
| 4 | (4) | CHARACTER | 60 | AMDMEMDI_WORKITEM | DataType 002: work items |
| 4 | (4) | ADDRESS | 4 | AMDMEMDIWI_TOKEN | work item token |
| 8 | (8) | CHARACTER | 2 | AMDMEMDIWI_FUNCTIONCODE | EBCDIC eyecatcher to indicate function to be performed. |
| 10 | (A) | CHARACTER | 2 | | Reserved |
| 12 | (C) | CHARACTER | 8 | AMDMEMDIWI_TODWHENCREATED | TOD when work item was created. |
| 20 | (14) | SIGNED | 4 | AMDMEMDIWI_ITEM# | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|---------------------------|---|
| Dec | Hex | | | | |
| 24 | (18) | CHARACTER | 40 | | work item number |
| 4 | (4) | CHARACTER | 40 | AMDMEMDI_MSGSIZES | reserved |
| | | | | | DataType 003: msg sizes |
| 4 | (4) | SIGNED | 4 | AMDMEMDIMS_BUFFLEN | maximum number of bytes of message data that fit in the message buffer |
| 8 | (8) | SIGNED | 4 | AMDMEMDIMS_MSGOREMOTESENT | Number of remote signals sent that could have used a signal buffer of this size. Subject to wrapping. |
| 12 | (C) | SIGNED | 4 | AMDMEMDIMS_MSGOLOCALSENT | Number of local signals sent that could have used a signal buffer of this size. Subject to wrapping. |
| 16 | (10) | CHARACTER | 28 | | reserved |
| 64 | (40) | X'1' | 0 | AMDMEMDI_XRDATATYPE | "1" exit routine |
| 64 | (40) | X'2' | 0 | AMDMEMDI_WIDATATYPE | "2" work item |
| 64 | (40) | X'3' | 0 | AMDMEMDI_MS DATATYPE | "3" message sizes |
| 64 | (40) | X'0' | 0 | AMDMEMDI_NOSUBJECT | "0" global subject |
| 64 | (40) | X'1' | 0 | AMDMEMDI_GPSUBJECT | "1" group services |
| 64 | (40) | X'2' | 0 | AMDMEMDI_SISUBJECT | "2" signalling services |
| 64 | (40) | X'0' | 0 | AMDMEMDI_KNOSTAGE | "0" no stage identified |
| 64 | (40) | X'1' | 0 | AMDMEMDI_KPENDINGSTAGE | "1" Processing is pending. For example, SRB scheduled but not yet run. |
| 64 | (40) | X'2' | 0 | AMDMEMDI_KSETUPSTAGE | "2" Doing setup work to prepare to do the desired processing. |
| 64 | (40) | X'3' | 0 | AMDMEMDI_KRUNNINGSTAGE | "3" In midst of doing the desired processing. |

Comment

Constants for Hardware Descriptor Types

End of Comment

| | | | | | |
|----|------|-------|---|--------------|--|
| 64 | (40) | X'0' | 0 | AMHDTNA | "0" Hardware type not applicable, ignore hardware descriptor data. |
| 64 | (40) | X'1' | 0 | AMHDTCTC | "1" CTC device. |
| 64 | (40) | X'2' | 0 | AMHDTSTR | "2" CF Structure (summary) |
| 64 | (40) | X'3' | 0 | AMHDTLST | "3" A list within a CF structure |
| 64 | (40) | X'40' | 0 | AMDMEMDI_LEN | **-AMDMEMDI" |

Offsets

| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
|-----|-----|------------|-----|--------------|---|
| 0 | (0) | STRUCTURE | 0 | AMCTCHDD | Path hardware descriptor for CTC devices. |
| 0 | (0) | CHARACTER | 4 | AMCTCDEV | Device number (EBCDIC) |
| 4 | (4) | CHARACTER | 28 | | Unused, set to zero. |
| 4 | (4) | X'20' | 0 | AMCTCHDD_LEN | **-AMCTCHDD" |

Offsets

| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
|-----|------|------------|-----|------------|--|
| 0 | (0) | STRUCTURE | 0 | AMSTRHDD | Path hardware descriptor for a CF List structure. |
| 0 | (0) | CHARACTER | 16 | AMSTRNAM | Structure name (EBCDIC) |
| 16 | (10) | SIGNED | 4 | AMSTR#AV | Number of lists that remain available for use (either as PATHIN or PATHOUT). Zero if list structure is considered inoperative. |

IXCYAMDA Cross Reference

| Offsets | | | | | |
|---------|------|------------|-----|--------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 20 | (14) | SIGNED | 4 | AMSTR#OD | Number of other systems connected to this structure that desire to establish signalling paths in the opposite direction. This system is not included in the count. The count is zero if the list structure is considered inoperative. |
| 24 | (18) | SIGNED | 4 | AMSTR#LP | Number of list signalling paths started by this system in the indicated direction for this list structure. The count includes inoperative list paths. |
| 28 | (1C) | CHARACTER | 4 | | Unused, set to zero. |
| 28 | (1C) | X'20' | 0 | AMSTRHDD_LEN | "*-AMSTRHDD" |

| Offsets | | | | | |
|---------|------|------------|-----|--------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | AMLSTHDD | Path hardware descriptor for a particular list within a CF List structure |
| 0 | (0) | CHARACTER | 16 | AMLSTSTR | Structure name (EBCDIC) |
| 16 | (10) | SIGNED | 4 | AMLSTNUM | List number |
| 20 | (14) | CHARACTER | 12 | | Unused, set to zero. |
| 20 | (14) | X'20' | 0 | AMLSTHDD_LEN | "*-AMLSTHDD" |

IXCYAMDA Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|--------------------------|------------|-----------|--------------------------|------------|-----------|
| AMCTCDEV | 0 | | AMDMEM_LENGTH | 2 | |
| AMCTCHDD | 0 | | AMDMEM_MEMBERNAME | C | |
| AMCTCHDD_LEN | 4 | 20 | AMDMEM_MEMBERTOKEN | 2C | |
| AMDA#MPE | 10 | | AMDMEM_MSGICURRWORKITEMS | 48 | |
| AMDA#MUS | 34 | | AMDMEM_MSGIRECEIVED | 44 | |
| AMDA#PTH | 4 | | AMDMEM_MSGITRANSFERS | 4C | |
| AMDA#SD | 28 | | AMDMEM_MSGOACCEPTED | 3C | |
| AMDA#SYS | 1C | | AMDMEM_MSGONOBUFFER | 40 | |
| AMDALMPE | 14 | | AMDMEM_MSGOTRANSFERTIME | 50 | |
| AMDALMUS | 38 | | AMDMEM_SYSNAME | 24 | |
| AMDALPTH | 8 | | AMDMEM_SYSTOKEN | 34 | |
| AMDALSD | 2C | | AMDMEM_TYPE | 0 | |
| AMDALSYS | 20 | | AMDMEM_TYPEMEM | 0 | 10 |
| AMDAOMPE | 18 | | AMDMEMDI | 0 | |
| AMDAOMUS | 3C | | AMDMEMDI_DATA | 4 | |
| AMDAOPTH | C | | AMDMEMDI_DATATYPE | 0 | |
| AMDAOSD | 30 | | AMDMEMDI_EXITROUTINES | 4 | |
| AMDAOSYS | 24 | | AMDMEMDI_FLAGS | 2 | |
| AMDAREA | 0 | | AMDMEMDI_GPSSUBJECT | 40 | 1 |
| AMDAREA_LEN | 3C | 40 | AMDMEMDI_HDR | 0 | |
| AMDATLEN | 0 | | AMDMEMDI_KNOSTAGE | 40 | 0 |
| AMDASID | 10 | | | | |
| AMDMDEVN | 4 | | | | |
| AMDMEM | 0 | | | | |
| AMDMEM_#DATAITEMS | 108 | | | | |
| AMDMEM_ASID | 3A | | | | |
| AMDMEM_DATAITEMS | 10C | | | | |
| AMDMEM_GROUPNAME | 4 | | | | |
| AMDMEM_GRPXCURRWORKITEMS | 58 | | | | |
| AMDMEM_GRPXRECEIVED | 54 | | | | |
| AMDMEM_HDR | 0 | | | | |
| AMDMEM_JOBNAME | 1C | | | | |
| AMDMEM_LEN | 10C | 14C | | | |

| Name | Hex Offset | Hex Value |
|----------------------------|------------|-----------|
| AMDMEMDI_KPENDINGSTAGE | 40 | 1 |
| AMDMEMDI_KRUNNINGSTAGE | 40 | 3 |
| AMDMEMDI_KSETUPSTAGE | 40 | 2 |
| AMDMEMDI_LEN | 40 | 40 |
| AMDMEMDI_MS DATATYPE | 40 | 3 |
| AMDMEMDI_MSGSIZES | 4 | |
| AMDMEMDI_NOSUBJECT | 40 | 0 |
| AMDMEMDI_SISUBJECT | 40 | 2 |
| AMDMEMDI_STALLED | 2 | 80 |
| AMDMEMDI_SUBJECT | 1 | |
| AMDMEMDI_WIDATATYPE | 40 | 2 |
| AMDMEMDI_WORKITEM | 4 | |
| AMDMEMDI_XRDATATYPE | 40 | 1 |
| AMDMEMDIMS_BUFFLEN | 4 | |
| AMDMEMDIMS_MSGOLOCALSENT | C | |
| AMDMEMDIMS_MSGOREMOTESENT | 8 | |
| AMDMEMDIWI_FUNCTIONCODE | 8 | |
| AMDMEMDIWI_ITEM# | 14 | |
| AMDMEMDIWI_TODWHENCREATED | C | |
| AMDMEMDIWI_TOKEN | 4 | |
| AMDMEMDIXR_FUNCTIONCODE | 8 | |
| AMDMEMDIXR_PROCESSTAGE | 1C | |
| AMDMEMDIXR_TODWHENCALLED | C | |
| AMDMEMDIXR_TODWHENRETURNED | 14 | |
| AMDMEMDIXR_TOKEN | 4 | |
| AMDMHOME | 12 | |
| AMDMLENT | 2 | |
| AMDMMGL | 1C | |
| AMDMPEND | 0 | |
| AMDMPEND_LEN | 2C | 4C |
| AMDMPHDD | 2C | |
| AMDMPHDT | 28 | |
| AMDMTCN | 20 | |
| AMDMTOKN | 8 | |
| AMDMTSNM | 14 | |
| AMDMTYPE | 0 | |
| AMDMTYPM | 0 | 2 |
| AMDP#ACT | 38 | |
| AMDP#APP | 40 | |
| AMDP#IBR | 38 | |
| AMDP#RET | 28 | |

| Name | Hex Offset | Hex Value |
|---------------------------|------------|-----------|
| AMDP#RST | 2C | |
| AMDP#SIG | 34 | |
| AMDP#SUS | 3C | |
| AMDP#USE | 44 | |
| AMDPATH | 0 | |
| AMDPATH_LEN | 58 | 78 |
| AMDPATH1 | 0 | |
| AMDPATH1_#PENDINGDELIVERY | 80 | |
| AMDPATH1_BUFFLEN | 78 | |
| AMDPATH1_LEN | 88 | BC |
| AMDPATH1_SIGNAL# | 84 | |
| AMDPATH1_TRANSFERRATE | 7C | |
| AMDPDEV | C | |
| AMDPIR | 10 | |
| AMDPIFAIL | 20 | 2 |
| AMDPIFLAG | 20 | |
| AMDPIB | 10 | 80 |
| AMDPIOX | 40 | |
| AMDPIENT | 2 | |
| AMDPLINK | 20 | 8 |
| AMDPMGRS | 48 | |
| AMDPMRET | 24 | |
| AMDPMXMS | 30 | |
| AMDPINAME | 4 | |
| AMDPINOP | 20 | 4 |
| AMDPODEV | 1C | |
| AMDPIONME | 14 | |
| AMDPIOUTB | 10 | 40 |
| AMDPIPHDD | 58 | |
| AMDPIPHDT | 54 | |
| AMDPIQSCD | 21 | 40 |
| AMDPIQSCG | 21 | 80 |
| AMDPIRBLD | 20 | 1 |
| AMDPIREST | 20 | 40 |
| AMDPISTAT | 20 | |
| AMDPISTA2 | 21 | |
| AMDPISTOP | 20 | 10 |
| AMDPISTR | 20 | 80 |
| AMDPTCN | 4C | |
| AMDPTYPE | 0 | |
| AMDPTYP | 0 | 1 |
| AMDPIWORK | 20 | 20 |
| AMDSD | 0 | |
| AMDSD_LEN | 28 | 30 |
| AMDSDGRP | 4 | |
| AMDSDLENT | 2 | |
| AMDSDMEM | C | |
| AMDSDMGRS | 24 | |
| AMDSDRCNT | 20 | |
| AMDSDSCNT | 1C | |
| AMDSDSNAM | 28 | |
| AMDSDTYPE | 0 | |
| AMDSDTYP | 0 | 8 |
| AMDSDYBIG | 28 | |
| AMDSDYBSY | 14 | |
| AMDSDYDIR | C | |
| AMDSDYFIT | 2C | |
| AMDSDYGRS | 44 | |
| AMDSDYIN | C | 80 |
| AMDSDYLCL | C | 20 |
| AMDSDYLEN | 2 | |

IXCYAMDA Cross Reference

| Name | Hex Offset | Hex Value |
|-------------------|---------------|--------------|
| AMDSYMXB | 1C | |
| AMDSYNME | 4 | |
| AMDSYNOP | 18 | |
| AMDSYNUM | 24 | |
| AMDSYOUT | C | 40 |
| AMDSYOVR | 34 | |
| AMDSYPTH | 10 | |
| AMDSYS | 0 | |
| AMDSYS_LEN | 48 | 4C |
| AMDSYSML | 30 | |
| AMDSYSMX | 48 | |
| AMDSYS1 | 0 | |
| AMDSYS1_#MSGSIZES | 6C | |
| AMDSYS1_BUFFLEN | 70 | |
| AMDSYS1_LEN | 78 | 80 |
| AMDSYS1_MSGSIZES | 70 | |
| AMDSYS1_SIGNALCNT | 74 | |
| AMDSYS1F | 0 | |
| AMDSYS1V | 70 | |
| AMDSYTCL | 38 | |
| AMDSYTCN | 3C | |
| AMDSYTYE | 0 | 4 |
| AMDSYTYP | 0 | |
| AMDSYUSE | 20 | |
| AMHDTCTC | 40 | 1 |
| AMHDTLST | 40 | 3 |
| AMHDTNA | 40 | 0 |
| AMHDTSTR | 40 | 2 |
| AMLSTHDD | 0 | |
| AMLSTHDD_LEN | 14 | 20 |
| AMLSTNUM | 10 | |
| AMLSTSTR | 0 | |
| AMSTR#AV | 10 | |
| AMSTR#LP | 18 | |
| AMSTR#OD | 14 | |
| AMSTRHDD | 0 | |
| AMSTRHDD_LEN | 1C | 20 |
| AMSTRNAM | 0 | |

IXCYARAA Programming Interface information

Programming Interface information

IXCYARAA

End of Programming Interface information

IXCYARAA Heading Information

| | | | |
|----------------------------|---|---------------|--|
| Common Name: | IXCARM Answer Area Structure | | |
| Macro ID: | IXCYARAA | | |
| DSECT Name: | ARAA | | |
| Owning Component: | Cross System Coupling Facility (SCXCF) | | |
| | SUBCOMPONENT: Automatic Restart Manager | | |
| Eye-Catcher ID: | None | | |
| Storage Attributes: | Subpool: | User-supplied | |
| | Key: | User-supplied | |
| | Residency: | User-supplied | |
| Size: | 32 bytes | | |
| Created by: | Invoker of IXCARM-REGISTER macro | | |
| Pointed to by: | Input parameter of IXCARM-Register macro | | |
| Serialization: | None | | |
| Function: | To provide a mapping of the data that the IXCARM-REGISTER macro returns to its invoker (in the optional answer area provided by the invoker). | | |

IXCYARAA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------------------|-----|------------------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | ARAA | |
| 0 | (0) | BITSTRING | 1 | ARAAREGTYPE | Condition for this register: 0-Request did not complete. The contents of the answer area may not be valid, 1-initial register of element, 2-register after ARM restart |
| 1 | (1) | BITSTRING 1... | 1 | ARAAFLAGS1 ARAARESTARTOFF | Flags for special conditions from the IXCARM-Register request |
| | | | | | "X'80" When =1, ARM restarts are disabled in the sysplex |
| | | | | | Comment |

The ARAAAssocIssued and ARAAReadyIssued flags are provided to assist an element reregistering after a restart to determine the status it had when it terminated. These flags do not reflect the current status of the element.

The internal data from which these flags are set persists across restarts of the element and will be cleared only when the element deregisters. However, the internal flag for ARAAAssocIssued is also cleared when an Associate request fails. So, the ARAAAssocIssued flag indicates whether the most recent Associate request worked. Even when one or both of these flags is on when an element reregisters, that element should still (re)issue IXCARM-Associate (if appropriate) and IXCARM-Ready.

| | | | | | |
|---|-----|-----------|----|-----------------|--|
| | | | | | End of Comment |
| | | .1.. | | ARAAASSOCISSUED | "X'40" When =1, the most recent IXCARM Associate macro issued by this element was successful. Pertinent only on reregistartion after a restart. |
| | | ..1. | | ARAAREADYISSUED | "X'20" When =1, element has previously explicitly issued an IXCARM-Ready macro. (Not set when only instance of element becoming ready was via a ready-timeout.) Pertinent only on reregistartion after a restart |
| 2 | (2) | CHARACTER | 2 | ARAAHOMECLONE | |
| 4 | (4) | CHARACTER | 2 | ARAACURCLONE | Replication ID of system where element initially registered |
| 6 | (6) | CHARACTER | 26 | | Replication ID of system where this registration occurred |
| | | | | | Reserved |

| Offsets | | Type/Value | Len | Name (Dim) | Description | | | | |
|---|-----|------------|-----|-------------|--|--|--|--|--|
| Dec | Hex | | | | | | | | |
| Comment | | | | | | | | | |
| Constants defining the "type" of registration returned in the answer area for IXCARM-Register | | | | | | | | | |
| End of Comment | | | | | | | | | |
| | | | | ARAAUNKNOWN | "X'00" Condition for IXCARM-Register is unknown | | | | |
| | |1 | | ARAAINITREG | "X'01" Registration is initial one for element | | | | |
| | |1. | | ARAARESTART | "X'02" Registration is after an ARM restart of element | | | | |

IXCYARAA Cross Reference

| Name | Hex Offset | Hex Value |
|-----------------|------------|-----------|
| ARAA | 0 | |
| ARAAASSOCISSUED | 1 | 40 |
| ARAACURCLONE | 4 | |
| ARAAFLAGS1 | 1 | |
| ARAAHOMECLONE | 2 | |
| ARAAINITREG | 6 | 1 |
| ARAAREADYISSUED | 1 | 20 |
| ARAAREGTYPE | 0 | |
| ARAARESTART | 6 | 2 |
| ARAARESTARTOFF | 1 | 80 |
| ARAAUNKNOWN | 6 | 0 |

IXCYAREN Programming Interface information

| | | |
|--|--|--|
| | Programming Interface information | |
| | <u>IXCYAREN</u> | |
| | End of Programming Interface information | |

IXCYAREN Heading Information

| | |
|---------------------|---|
| Common Name: | Automatic Restart Manager ENF signal parameter list |
| Macro ID: | IXCYAREN |
| DSECT Name: | AREN |
| Owning Component: | Cross-System Coupling Facility (SCXCF) SUBCOMPONENT: Automatic Restart Manager |
| Eye-Catcher ID: | AREN Offset: 0 Length: 4 bytes |
| Storage Attributes: | Subpool: 248 Key: 0 |
| Size: | 72 bytes |
| Created by: | IXCA3ENF |
| Pointed to by: | On entry to the ENF listen exit, register 1 points to a word which contains the address of the IXCYAREN data area |
| Serialization: | Serialized by the ENF component |
| Function: | Mapping of parameter list passed to ENF listener routines for events signalled by the Automatic Restart Manager |

IXCYAREN Map

| Offsets | | | | | |
|---|------|------------------------|-----|----------------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | AREN | |
| 0 | (0) | CHARACTER | 4 | ARENACRONYM | Eyecatcher C'AREN' |
| 4 | (4) | BITSTRING | 2 | ARENQUALIFIER | Function code (listed below) identifying the specific event |
| 6 | (6) | BITSTRING 1... | 1 | ARENFLAGS1 ARENRESTART | Flags "X'80" Register or Ready issued during ARM restart of element (as opposed to during its initial startup) |
| 7 | (7) | BITSTRING .1.. | 1 | ARENDEREGERR ARENFLAGS2 | "X'40" Deregister issued internally by ARM because of an error Flag byte (to get element name on a word boundary) |
| 8 | (8) | CHARACTER | 16 | ARENELEMENTNAME | ARM element name |
| 24 | (18) | CHARACTER | 8 | ARENJOBNAME | Job name |
| 32 | (20) | CHARACTER | 8 | ARENELEMENTTYPE | ARM element type |
| 40 | (28) | CHARACTER | 16 | ARENRESTGRPNAME | ARM restart group to which the element belongs |
| 56 | (38) | CHARACTER | 8 | ARENOLDSYSNAME | The name of the system where the element initially registered |
| 64 | (40) | CHARACTER | 8 | ARENNEWSYSNAME | System name of the system where the element was most recently started or restarted. (For many ENFs ARENOLDSYSNAME and ARENNEWSYSNAME will have the same value.) |
| <div> <div>Comment</div> <div>Function codes for ArenQualifier</div> <div>End of Comment</div> </div> | | | | | |
| .... | ...1 | | | ARENEVENTREG | "X'01" Element was started/restarted and registered with the Automatic Restart Manager (i.e., it issued the IXCARM REGISTER macro |
| .... | ..1. | | | ARENEVENTREADY | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|----------------|------|------------|-----|---------------------|---|
| Dec | Hex | | | | |
| | |11 | | ARENEVENTDEREG | "X'02" Element notified the system that it is ready to accept work (issued the IXCARM READY macro) |
| | |1.. | | ARENEVENTCDSCONNECT | "X'03" Element was going through shutdown and and deregistered with system (issued the IXCARM DEREGISTER macro) or was internally deregistered by ARM |
| | | | | | "X'04" This system has acquired (or regained) access to the Couple data set for the Automatic Restart Manager |
| Comment | | | | | |
| Eyecatcher | | | | | |
| End of Comment | | | | | |
| 72 | (48) | CHARACTER | 4 | ARENEYECATCHER | Eyecatcher |

IXCYAREN Cross Reference

| Name | Hex Offset | Hex Value |
|---------------------|------------|-----------|
| AREN | 0 | |
| ARENACRONYM | 0 | |
| ARENDEREGERR | 6 | 40 |
| ARENELEMENTNAME | 8 | |
| ARENELEMENTTYPE | 20 | |
| ARENEVENTCDSCONNECT | 40 | 4 |
| ARENEVENTDEREG | 40 | 3 |
| ARENEVENTREADY | 40 | 2 |
| ARENEVENTREG | 40 | 1 |
| ARENEYECATCHER | 48 | C1D9C5D5 |
| ARENFLAGS1 | 6 | |
| ARENFLAGS2 | 7 | |
| ARENJOBNAME | 18 | |
| ARENNEWSYSNAME | 40 | |
| ARENOLDSYSNAME | 38 | |
| ARENQUALIFIER | 4 | |
| ARENRESTART | 6 | 80 |
| ARENRESTGRPNAME | 28 | |

IXCYARM Programming Interface information

Programming Interface information

IXCYARM

End of Programming Interface information

IXCYARM Heading Information

Common Name: IXCARM and IXCXARMI Macro Constants
Macro ID: IXCYARM
DSECT Name: None
Owning Component: Cross System Coupling Facility (SCXCF)
 SUBCOMPONENT: Automatic Restart Manager (ARM)
Eye-Catcher ID: None
Storage Attributes: Subpool: N/A
 Key: N/A
 Residency: N/A
Size: N/A
Created by: N/A
Pointed to by: N/A
Serialization: None
Function: This is a data-only macro containing return codes, reason codes, and other constants related to the IXCARM macro.

IXCYARM Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | | |
|  |  | .... .... |  | IXCARMRC0 | "X'00000000" IXCARM macro completed successfully |
| | |1.. | | IXCARMRC4 | "X'00000004" IXCARM macro completed successfully but with some qualifying condition (indicated by reason code in in reg 0.) |
| | | 1... | | IXCARMRC8 | "X'00000008" IXCARM macro failed because of an invalid parameter. (Reason code in reg 0.) |
| | | 11.. | | IXCARMRC12 | "X'0000000C" IXCARM macro failed because of an environmental error. (Reason code in reg 0.) |
| | | ...1 | | IXCARMRC16 | "X'00000010" IXCARM macro failed because of a software error. (Reason code in reg 0.) |

Comment

Constants defining reason codes provided by the IXCARM macro
 (in Register 0).
 Reason codes associated with return code X'04'

End of Comment

| | | | | | |
|---|-----|-----------|---|-----------------------|---|
| 0 | (0) | BITSTRING | 0 | IXCARMPERJCL | "X'00000104" Registration was requested by an ARM user that is being restarted with the same JCL or Start command that was used for initial startup |
| 0 | (0) | BITSTRING | 0 | IXCARMNEWJCL | "X'00000108" Registration was requested by an ARM user that is being restarted with JCL or a Start command provided by policy or an exit, or by the application |
| 0 | (0) | BITSTRING | 0 | IXCARMPREDTIMEOUT | "X'00000204" Predecessor element not ready within its specified interval |
| 0 | (0) | BITSTRING | 0 | IXCARMREADYTIMEOUT | "X'00000304" Ready request complete but a predecessor element had timed out |
|  |  | .... .... |  | IXCARMPPLACEHOLDERRC4 | "X'00000000" placeholder |

Comment

Reason codes associated with return code X'08'

End of Comment

| | | | | | |
|------|------|--|--|--------------|---|
| ...1 | .1.. | | | IXCARMNOTREG | "X'00000014" Issuer not registered with ARM |
|------|------|--|--|--------------|---|

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|-----------------------|---|
| Dec | Hex | | | | |
| | | ...1 1... | | IXCARMINVANSADDR | "X'00000018" The answer area provided with this request cannot be accessed |
| | | ...1 11.. | | IXCARMINVANSALET | "X'0000001C" The ALET that qualifies the address of the answer area is not associated with a valid DU-AL entry |
| | | ..1. | | IXCARMINVRMTADDR | "X'00000020" The RMtoken area provided with this request cannot be accessed |
| | | ..1. .1.. | | IXCARMINVRMTALET | "X'00000024" The ALET that qualifies the address of the RMtoken area is not associated with a valid DU-AL entry |
| | | ..1. 11.. | | IXCARMINVELEMNAME | "X'0000002C" REGISTER or ASSOCIATE request specified an invalid element name |
| | | ..11 | | IXCARMREQUESTOVERLAP | "X'00000030" An IXCARM request from this address space is already outstanding |
| | | ..11 .1.. | | IXCARMAMODE24 | "X'00000034" IXCARM macro was issued in 24-bit addressing mode |
| | | .1.. | | IXCARMRSVNOT0 | "X'00000040" A reserved field is not zero. Your program may have inadvertently written over an area in the parameter list |
| | | 1.1. | | IXCARMINVR0 | "X'000000A0" Register 0 has an invalid value |
| | | 1.1. .1.. | | IXCARMR0TYPECONFL | "X'000000A4" Register 0 and request type conflict |
| 0 | (0) | BITSTRING | 0 | IXCARMINVPLISTALET | "X'00000100" The ALET that qualifies the address of the parameter list is not associated with a valid DU-AL entry |
| 0 | (0) | BITSTRING | 0 | IXCARMBADVERSION | "X'00000104" The version of the IXCARM parameter list is incorrect |
| 0 | (0) | BITSTRING | 0 | IXCARMBADREQUEST | "X'00000108" The ARM function specified in the REQUEST parameter of the IXCARM macro is invalid |
| 0 | (0) | BITSTRING | 0 | IXCARMPARMERR | "X'0000010C" Error accessing parameter list |
| 0 | (0) | BITSTRING | 0 | IXCARMSTARTERR | "X'00000110" Error fetching STARTTXT parameter |
| 0 | (0) | BITSTRING | 0 | IXCARMSTARTLEN | "X'00000114" Invalid STARTTXTLEN |
| 0 | (0) | BITSTRING | 0 | IXCARMNOTTASKMODE | "X'00000118" Issuer not in task mode |
| 0 | (0) | BITSTRING | 0 | IXCARMNOTENABLED | "X'0000011C" Issuer not enabled |
| 0 | (0) | BITSTRING | 0 | IXCARMHASLOCK | "X'00000120" Issuer holds local lock |
| 0 | (0) | BITSTRING | 0 | IXCARMHASEUTFRR | "X'00000124" Issuer running under EUT FRR |
| 0 | (0) | BITSTRING | 0 | IXCARMRSN128X | "X'00000128" Reserved (was IXCARMJESerr) |
| 0 | (0) | BITSTRING | 0 | IXCARMJOURNAL | "X'0000012C" The caller is a candidate for either Checkpoint/Restart or step restart (i.e., journalling) and is therefore not eligible to be restarted by ARM |
| 0 | (0) | BITSTRING | 0 | IXCARMINVELEMTYPE | "X'00000130" The name specified for the element type is invalid |
| 0 | (0) | BITSTRING | 0 | IXCARMWRONGCALLERTYPE | "X'00000134" Program error. An IXCARM request specified or defaulted to ELEMBIND=CURJOB and the application is neither a started task nor a batch job. |
| 0 | (0) | BITSTRING | 0 | IXCARMCANCELLED | |

IXCYARM Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|----------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IXCARMRACRFAIL | "X'00000138" A CANCEL or FORCE command without the ARMRESTART parameter has been issued against the caller of IXCARM-Register |
| 0 | (0) | BITSTRING | 0 | IXCARMINVTERMTYPE | "X'0000013C" The RACROUTE invocation for the security token of IXCARM-Register's caller failed |
| 0 | (0) | BITSTRING | 0 | IXCARMINVRESTTIMEOUT | "X'00000140" TERMTYPE value on a Register request is invalid |
| 0 | (0) | BITSTRING | 0 | IXCARMSAVEFAIL | "X'00000144" Restart timeout value on a Register request is invalid |
| 0 | (0) | BITSTRING | 0 | IXCARMBATCHSTARTTXT | "X'00000148" Register request prohibited by JES. |
| 0 | (0) | BITSTRING | 0 | IXCARMELEMNAMEINUSE | "X'0000014C" A batch job specified STARTTXT on its register request |
| 0 | (0) | BITSTRING | 0 | IXCARMADDRSPACEDUP | "X'00000150" Element name specified on register request is already registered. |
| 0 | (0) | BITSTRING | 0 | IXCARMEXITPARM | "X'00000154" Program error. An element with a bind to the batch job or started task is already registered with ARM. Only one element per batch job or started task can register with a bind specification of CURJOB. |
| 0 | (0) | BITSTRING | 0 | IXCARMEXITLEN | "X'00000158" Error fetching EVENTEXIT parameter list |
| 0 | (0) | BITSTRING | 0 | IXCARMEXITNAME | "X'0000015C" EVENTEXIT parm list exceeds maximum length |
| 0 | (0) | BITSTRING | 0 | IXCARMINVEVENTEXIT | "X'00000160" Error trying to acquire the Event-Exit routine name |
| 0 | (0) | BITSTRING | 0 | IXCARMINVASYNCREQ | "X'00000164" The name specified for the Event-Exit routine is not a valid MVS load module name |
| 0 | (0) | BITSTRING | 0 | IXCARMINVELEMBIND | "X'00000168" A request needing asynchronous processing is invalid in this address space/task |
| 0 | (0) | BITSTRING | 0 | IXCARMRSVREGFDS | "X'0000016C" ELEMBIND value on a Register request is invalid, or ELEMBIND=CURSYS was specified with TERMTYPE=ELEMTERM. |
| 0 | (0) | BITSTRING | 0 | IXCARMBADWAITPRED | "X'000001A8" REGISTER request but fields not applying to REGISTER were not zero |
| 0 | (0) | BITSTRING | 0 | IXCARMRSVWTFDFS | "X'00000204" WAITPRED request issued invalidly for element (e.g., after element was ready) |
| 0 | (0) | BITSTRING | 0 | IXCARMBADREADY | "X'000002A8" WAITPRED request but fields not applying to WAITPRED were not zero |
| 0 | (0) | BITSTRING | 0 | IXCARMRSVRDYFDS | "X'00000304" READY request issued invalidly for element (e.g., element was already ready) |
| 0 | (0) | BITSTRING | 0 | IXCARMDUPASSOC1 | "X'000003A8" Required fields were not zero on a READY request |
| 0 | (0) | BITSTRING | 0 | IXCARMBADTARGETLEM | "X'00000404" Issuer of an ASSOCIATE request is already associated with an element |
| 0 | (0) | BITSTRING | 0 | IXCARMDUPASSOC2 | "X'00000408" On an ASSOCIATE request, the TELEMENT field does not specify the name of a registered ARM element |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|--|-----|------------|-----|-------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IXCARMSELFASSOC | "X'0000040C'" On ASSOCIATE request, the element specified in the TELEMENT parameter is already associated with another element |
| 0 | (0) | BITSTRING | 0 | IXCARMRSVASSFDS | "X'00000414'" The issuer of an ASSOCIATE request specified itself as the TELEMENT |
| 0 | (0) | BITSTRING | 0 | IXCARMRSVDRGFDS | "X'000004A8'" Required fields were not zero on an ASSOCIATE request |
| 0 | (0) | BITSTRING | 0 | IXCARMWRONGELEMNREREG | "X'000005A8'" Required fields were not zero on a DEREGISTER request |
| 0 | (0) | BITSTRING | 0 | IXCARMWRONGADDRONREREG | "X'000005B0'" The element that has attempted to register has done so in an address space that was created for the restart of another element. Only the restarted element can re-register in the current address space. |
| 0 | (0) | BITSTRING | 0 | IXCARMWRONGADDRONREREG | "X'000005B4'" The element that has attempted to re-register has done so in an address space other than the one that was created for the re-registering element. The element can only re-register in the address space that the override restart start text was issued in. |
| 0 | (0) | BITSTRING | 0 | IXCARMREREGAFTEERTIMOUT | "X'000005B8'" The element that has attempted to register has done so in an address space that was created for the restart of another element. However, the element that the address space was initially created for is no longer known to ARM. This is probably due to the restart of the element having timed out. |
| 0 | (0) | BITSTRING | 0 | IXCARMUNAUTHEVENTEXIT | "X'000005BC'" Users who are both in problem state and problem key can not specify an event exit on registration. |
| 0 | (0) | BITSTRING | 0 | IXCARMUNAUTHSTARTTXT | "X'000005C0'" Users who are both in problem state and problem key can not specify restart start text on registration. |
| 0 | (0) | BITSTRING | 0 | IXCARMUNAUTHRMTOKEN | "X'000005C4'" Users who are both in problem state and problem key can not specify RMTOKEN on any request. |
|  |  | .... .... |  | IXCARMPLACEHOLDERRC8 | "X'00000000'" placeholder |
| Comment | | | | | |
| Reason codes associated with return code X'0C' | | | | | |
| End of Comment | | | | | |
| | |1.. | | IXCARMNOARM | "X'00000004'" The MVS system on which this macro was issued is at an MVS or JES release level that does not support the Automatic Restart Manager function. |
| | | 11.. | | IXCARMNOESTAE | "X'0000000C'" ARM was unable to establish an ESTAE routine for IXCARM processing |
| | | 11.. | | IXCARMFDSERR1 | "X'000000C0'" Internal error while trying to access ARM's function data set |
| | | 11.. .1.. | | IXCARMFDSERR2 | "X'000000C4'" Internal error with ARM's function data set (bad Ename) |
| | | 11.. 1... | | IXCARMFDSERR3 | "X'000000C8'" Internal error with ARM's function data set (bad slot) |
| | | 11.. 11.. | | IXCARMBADTESTART | "X'000000CC'" Internal error, call to TESTART failed |
| 0 | (0) | BITSTRING | 0 | IXCARMMAXUSERS | |

IXCYARM Cross Reference

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|--|------|------------|-----|-----------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IXCARMNOCDs | "X'00000104'" Maximum number of ARM users registered |
| 0 | (0) | BITSTRING | 0 | IXCARMBADJOB | "X'00000160'" No access to an ARM CDS on this system |
| | | | | | "X'00000164'" Environmental error, JES could not support ARM requests for this job. A unit of work other than a batch job or started task has attempted to register with ARM without specifying ELEMBIND=CURSYS. The registration was rejected. |
| 0 | (0) | BITSTRING | 0 | IXCARMSAFNOTDEFINED | "X'00000168'" Problem state and problem key users can not use IXCARM without having a security profile in place for the facility IXCARM. |
| 0 | (0) | BITSTRING | 0 | IXCARMNOSAFAUTH | "X'0000016C'" The installed security product indicated that user does not have authorized access to the IXCARM facility or the secure entity. The entity is made up of the element name and type. |
| 0 | (0) | BITSTRING | 0 | IXCARMPQCERROR | "X'0C000810'" Unknown error in IXCA3PCQ routine. |
|  | .... | .... |  | IXCARMPLACEHOLDERRC12 | "X'00000000'" placeholder |
| Comment | | | | | |
| Reason codes associated with return code X'10' | | | | | |
| End of Comment | | | | | |
|  | .... | .1.. | | IXCARMARMERR | "X'00000004'" The Automatic Restart Manager experienced an error while processing request. The request is rejected and issuer is deregistered. |
|  | .... | 1... | | IXCARMUNKERR | "X'00000008'" The Automatic Restart Manager experienced an error while processing request. Request is rejected but issuer is not deregistered. |
| | 1.1. | .... |  | IXCARMPCCERROR | "X'000000A0'" Unknown error in IXCA3PCC routine. |
|  | .... | .... |  | IXCARMPLACEHOLDERRC16 | "X'00000000'" placeholder |
| Comment | | | | | |
| Constants for maximum length values | | | | | |
| End of Comment | | | | | |
| 0 | (0) | X'FF' | 0 | IXCARMMAXEXITPLEN | "255" Maximum allowable length for Event Exit parameter list |
| 0 | (0) | X'7E' | 0 | IXCARMMAXSTARTTEXT | "126" Maximum allowable length for restart command text |

IXCYARM Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|---------------------|------------|-----------|---------------------|------------|-----------|
| IXCARMADDRSPACEDUP | 0 | 154 | IXCARMBADVERSION | 0 | 104 |
| IXCARMAMODE24 | 0 | 34 | IXCARMBADWAITPRED | 0 | 204 |
| IXCARMARMERR | 0 | 4 | IXCARMATCHSTARTTXT | 0 | 14C |
| IXCARMBADJOB | 0 | 164 | IXCARMCANCELLED | 0 | 138 |
| IXCARMBADREADY | 0 | 304 | IXCARMDUPASSOC1 | 0 | 404 |
| IXCARMBADREQUEST | 0 | 108 | IXCARMDUPASSOC2 | 0 | 40C |
| IXCARMBADTARGETELEM | 0 | 408 | IXCARMELEMNAMEINUSE | 0 | 150 |
| IXCARMBADTESTART | 0 | CC | | | |

| Name | Hex Offset | Hex Value |
|----------------------|------------|-----------|
| IXCARMEXITLEN | 0 | 15C |
| IXCARMEXITNAME | 0 | 160 |
| IXCARMEXITPARM | 0 | 158 |
| IXCARMFDSERR1 | 0 | C0 |
| IXCARMFDSERR2 | 0 | C4 |
| IXCARMFDSERR3 | 0 | C8 |
| IXCARMHASEUTFRR | 0 | 124 |
| IXCARMHASLOCK | 0 | 120 |
| IXCARMINVANSADDR | 0 | 18 |
| IXCARMINVANSALLET | 0 | 1C |
| IXCARMINVASYNCREQ | 0 | 168 |
| IXCARMINVELEMBIND | 0 | 16C |
| IXCARMINVELEMNAME | 0 | 2C |
| IXCARMINVELEMTYPE | 0 | 130 |
| IXCARMINVEVENTEXIT | 0 | 164 |
| IXCARMINVPLISTALET | 0 | 100 |
| IXCARMINVRESTTIMEOUT | 0 | 144 |
| IXCARMINVRMTADDR | 0 | 20 |
| IXCARMINVRMTALET | 0 | 24 |
| IXCARMINVR0 | 0 | A0 |
| IXCARMINVTERMTYPE | 0 | 140 |
| IXCARMJOURNAL | 0 | 12C |
| IXCARMMAXEXITPLEN | 0 | FF |
| IXCARMMAXSTARTTEXT | 0 | 7E |
| IXCARMMAXUSERS | 0 | 104 |
| IXCARMNEWJCL | 0 | 108 |
| IXCARMNOARM | 0 | 4 |
| IXCARMNOCDS | 0 | 160 |
| IXCARMNOESTAE | 0 | C |
| IXCARMNOSAFAUTH | 0 | 16C |
| IXCARMNOTENABLED | 0 | 11C |
| IXCARMNOTREG | 0 | 14 |
| IXCARMNOTTASKMODE | 0 | 118 |
| IXCARMPARMERR | 0 | 10C |
| IXCARMPCCERROR | 0 | A0 |

| Name | Hex Offset | Hex Value |
|------------------------|------------|-----------|
| IXCARMPCCQERROR | 0 | 810 |
| IXCARMPERJCL | 0 | 104 |
| IXCARMPPLACEHOLDERRC12 | 0 | 0 |
| IXCARMPPLACEHOLDERRC16 | 0 | 0 |
| IXCARMPPLACEHOLDERRC4 | 0 | 0 |
| IXCARMPPLACEHOLDERRC8 | 0 | 0 |
| IXCARMPREDTIMEOUT | 0 | 204 |
| IXCARMRACRFAIL | 0 | 13C |
| IXCARMRC0 | 0 | 0 |
| IXCARMRC12 | 0 | C |
| IXCARMRC16 | 0 | 10 |
| IXCARMRC4 | 0 | 4 |
| IXCARMRC8 | 0 | 8 |
| IXCARMREADYTIMEOUT | 0 | 304 |
| IXCARMREQUESTOVERLAP | 0 | 30 |
| IXCARMREREGAFTERTIMOUT | 0 | 5B8 |
| IXCARMRSN128X | 0 | 128 |
| IXCARMRSVASSFDS | 0 | 4A8 |
| IXCARMRSVDRGFDS | 0 | 5A8 |
| IXCARMRSVNOT0 | 0 | 40 |
| IXCARMRSVRDYFDS | 0 | 3A8 |
| IXCARMRSVREGFDS | 0 | 1A8 |
| IXCARMRSVWTPFDS | 0 | 2A8 |
| IXCARMR0TYPECONFL | 0 | A4 |
| IXCARMSAFNOTDEFINED | 0 | 168 |
| IXCARMSAVEFAIL | 0 | 148 |
| IXCARMSELFASSOC | 0 | 414 |
| IXCARMSTARTERR | 0 | 110 |
| IXCARMSTARTLEN | 0 | 114 |
| IXCARMUNAUTHEVENTEXIT | 0 | 5BC |
| IXCARMUNAUTHRMToken | 0 | 5C4 |
| IXCARMUNAUTHSTARTTXT | 0 | 5C0 |
| IXCARMUNKERR | 0 | 8 |
| IXCARMWRONGADDRONREREG | 0 | 5B4 |
| IXCARMWRONGCALLERTYPE | 0 | 134 |
| IXCARMWRONGELEMONREREG | 0 | 5B0 |

IXCYCON Programming Interface information

Programming Interface information

IXCYCON

End of Programming Interface information

IXCYCON Heading Information

Common Name: Constants for users of IXC services
Macro ID: IXCYCON
DSECT Name:
Owning Component: Cross System Coupling Services (SCIXC)
Eye-Catcher ID: None
Storage Attributes: Main Storage: N/A
Size: 0 bytes
Created by: N/A
Pointed to by: N/A
Serialization: None
Function: Provides a list of constants for users of IXC services and exits.
Refer to documentation of the relevant service/macro for explanations of the return/reason codes.

IXCYCON Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---|------|------------|-----|---------------------------|----------------------|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | | |
| 0 | (0) | X'0' | 0 | IXCRETCODEOK | "0" |
| 0 | (0) | X'4' | 0 | IXCRETCODEWARNING | "4" |
| 0 | (0) | X'8' | 0 | IXCRETCODEPARMERROR | "8" |
| 0 | (0) | X'C' | 0 | IXCRETCODEENVERROR | "12" |
| 0 | (0) | X'10' | 0 | IXCRETCODECOMPERROR | "16" Component error |
| Comment | | | | | |
| ----- | | | | | |
| Constants for use with IXCARM service | | | | | |
| ----- | | | | | |
| Codes for IXCARM are defined in the IXCYARM macro | | | | | |
| ----- | | | | | |
| Constants for use with IXCCREAT service | | | | | |
| ----- | | | | | |
| IXCCREAT Reason codes for return code 4 | | | | | |
| ----- | | | | | |
| End of Comment | | | | | |
| .... | .... |  |  | IXCCREATRSNFIRSTMEMBER | "X'00000000" |
| Comment | | | | | |
| ----- | | | | | |
| IXCCREAT Reason codes for return code 8 | | | | | |
| ----- | | | | | |
| End of Comment | | | | | |
| .... | .1.. | | | IXCCREATRSNALREADYCREATED | "X'00000004" |
| .... | 1... | | | IXCCREATRSNISACTIVE | "X'00000008" |
| .... | 11.. | | | IXCCREATRSNISQUIESCED | "X'0000000C" |
| ...1 | .... |  |  | IXCCREATRSNISFAILED | "X'00000010" |
| ...1 | .1.. | | | IXCCREATRSNGRPNAMEBAD | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|---------------------------------|--|
| Dec | Hex | | | | |
| | | ...1 1... | | IXCCREATRSNMEMNAMEBAD | "X'00000014" |
| | | ..11 11.. | | IXCCREATRSNANSAREAINCOMPLETE | "X'00000018" |
| | | | | | "X'0000003C" For CreatRsnAnsAreaIncomplete, the high order halfword contains "xxyy" which indicates the return code "xx" and reason code "yy" that would have been returned had the answer area been completely filled in. |
| | | .1.. | | IXCCREATRSNPLISTRSDNOTVALID | "X'00000040" |
| 0 | (0) | BITSTRING | 0 | IXCCREATRSNPLISTBADALET | "X'00000100" |
| 0 | (0) | BITSTRING | 0 | IXCCREATRSNPLISTVERSIONNOTVALID | "X'00000104" |
| 0 | (0) | BITSTRING | 0 | IXCCREATRSNPLISTBADFUNCTION | "X'00000108" |
| 0 | (0) | BITSTRING | 0 | IXCCREATRSNPLISTBADSTG | "X'0000010C" |
| 0 | (0) | BITSTRING | 0 | IXCCREATRSNUSTATEBADSTG | "X'00000110" |
| 0 | (0) | BITSTRING | 0 | IXCCREATRSNUSLENBADVALUE | "X'00000114" |
| 0 | (0) | BITSTRING | 0 | IXCCREATRSNNOTTASKMODE | "X'00000118" |
| 0 | (0) | BITSTRING | 0 | IXCCREATRSNNOTENABLED | "X'0000011C" |

Comment

IXCCREAT Reason codes for return code C

End of Comment

| | | |
|-----------|-------------------------|--------------|
|1.. | IXCCREATRSNMAXGROUPS | "X'00000004" |
| 1... | IXCCREATRSNMAXMEMBERS | "X'00000008" |
| ...1 | IXCCREATRSNPARTITIONING | "X'00000010" |
| ...1 .1.. | IXCCREATRSNXCFLOCALMODE | "X'00000014" |
| ...1 1... | IXCCREATRSNTASKABENDED | "X'00000018" |

Comment

Constants for use with IXCDELET service

IXCDELET Reason codes for return code 4

None

IXCDELET Reason codes for return code 8

End of Comment

| | | | | | |
|---|-----|-----------|---|---------------------------------|--------------|
| | | | | END OF COMMON | |
| | |1.. | | IXCDELETRSNNOTDEFINED | "X'00000004" |
| | | 1... | | IXCDELETRSNNINAPPROPRIATESTATE | "X'00000008" |
| | | .1.. | | IXCDELETRSNPLISTRSDNOTVALID | "X'00000040" |
| 0 | (0) | BITSTRING | 0 | IXCDELETRSNPLISTBADALET | "X'00000100" |
| 0 | (0) | BITSTRING | 0 | IXCDELETRSNPLISTVERSIONNOTVALID | "X'00000104" |
| 0 | (0) | BITSTRING | 0 | IXCDELETRSNPLISTBADFUNCTION | |

IXCYCON Map

| Offsets | | | | | |
|--|------|------------|-----|-------------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | BITSTRING | 0 | IXCDELETRSNPLISTBADSTG | "X'00000108" |
| 0 | (0) | BITSTRING | 0 | IXCDELETRSNNOTTASKMODE | "X'0000010C" |
| 0 | (0) | BITSTRING | 0 | IXCDELETRSNNOTENABLED | "X'00000118" |
| | | | | | "X'0000011C" |
| Comment | | | | | |
| IXCDELET Reason codes for return code C | | | | | |
| End of Comment | | | | | |
| ... | 1... | | | IXCDELETRSNTASKABENDED | "X'00000018" |
| Comment | | | | | |
| ----- Constants for use with IXCJOIN service ----- | | | | | |
| IXCJOIN Reason codes for return code 4 | | | | | |
| End of Comment | | | | | |
| .... | .1.. | | | IXCJOINRSNFIRSTACTIVEMEMBER | "X'00000004" |
| .... | 1... | | | IXCJOINRSNWASFAILED | "X'00000008" |
| .... | 11.. | | | IXCJOINRSNWASQUIESCED | "X'0000000C" |
| ...1 | .... |  |  | IXCJOINRSNWASCREATED | "X'00000010" |
| Comment | | | | | |
| IXCJOIN Reason codes for return code 8 | | | | | |
| End of Comment | | | | | |
| .... | .1.. | | | IXCJOINRSNISCREATED | "X'00000004" |
| .... | 1... | | | IXCJOINRSNISACTIVE | "X'00000008" |
| .... | 11.. | | | IXCJOINRSNISQUIESCED | "X'0000000C" |
| ...1 | .... |  |  | IXCJOINRSNISFAILED | "X'00000010" |
| ...1 | .1.. | | | IXCJOINRSNGRPNAMEBAD | "X'00000014" |
| ...1 | 1... | | | IXCJOINRSNMEMNAMEBAD | "X'00000018" |
| ...1 | 11.. | | | IXCJOINRSNINTERVALBAD | "X'0000001C" |
| ..1. | .... |  |  | IXCJOINRSNSTATFLDBADSTG | "X'00000020" |
| ..1. | .1.. | | | IXCJOINRSNLASTINGNEEDSMEMNAME | "X'00000024" |
| ..1. | 1... | | | IXCJOINRSNSTATUSMONINCOMPLETE | "X'00000028" |
| ..11 | 11.. | | | IXCJOINRSNANSAREAINCOMPLETE | "X'0000003C" |
| | | | | | For JoinRsnAnsAreaIncomplete, the high order halfword contains "xxyy" which indicates the return code "xx" and reason code "yy" that would have been returned had the answer area been completely filled in. |
| ..1. | .... |  |  | IXCJOINRSNPLISTRSDNOTVALID | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---|-----|------------|-----|----------------------------------|--------------|
| Dec | Hex | | | | |
| | | .1.. .1.. | | IXCJOINRSNMEMASSOCBAD | "X'00000040" |
| | | | | | "X'00000044" |
| 0 | (0) | BITSTRING | 0 | IXCJOINRSNPLISTBADALET | "X'00000100" |
| 0 | (0) | BITSTRING | 0 | IXCJOINRSNPLISTVERSIONNOTVALID | "X'00000104" |
| 0 | (0) | BITSTRING | 0 | IXCJOINRSNPLISTBADFUNCTION | "X'00000108" |
| 0 | (0) | BITSTRING | 0 | IXCJOINRSNPLISTBADSTG | "X'0000010C" |
| 0 | (0) | BITSTRING | 0 | IXCJOINRSNUSTATEBADSTG | "X'00000110" |
| 0 | (0) | BITSTRING | 0 | IXCJOINRSNUSLENBADVALUE | "X'00000114" |
| 0 | (0) | BITSTRING | 0 | IXCJOINRSNNOTTASKMODE | "X'00000118" |
| 0 | (0) | BITSTRING | 0 | IXCJOINRSNNOTENABLED | "X'0000011C" |
| 0 | (0) | BITSTRING | 0 | IXCJOINRSNPRIMARYNOTHOME | "X'00000120" |
| 0 | (0) | BITSTRING | 0 | IXCJOINRSNTASKTERM | "X'00000128" |
| Comment | | | | | |
| IXCJOIN Reason codes for return code C | | | | | |
| End of Comment | | | | | |
| | |1.. | | IXCJOINRSNMAXGROUPS | "X'00000004" |
| | | 1... | | IXCJOINRSNMAXMEMBERS | "X'00000008" |
| | | ...1 | | IXCJOINRSNPARTITIONING | "X'00000010" |
| | | ...1 .1.. | | IXCJOINRSNXCLOCALMODE | "X'00000014" |
| Comment | | | | | |
| ----- Constants for use with IXCLEAVE service ----- | | | | | |
| IXCLEAVE Reason codes for return code 4 | | | | | |
| End of Comment | | | | | |
| | |1.. | | IXCLEAVERSNEXTSNOTPURGED | "X'00000004" |
| Comment | | | | | |
| IXCLEAVE Reason codes for return code 8 | | | | | |
| End of Comment | | | | | |
| | |1.. | | IXCLEAVERSNNOTACTIVE | "X'00000004" |
| | | 1... | | IXCLEAVERSNNINAPPROPRIATEPRIMARY | "X'00000008" |
| | | ...1 | | IXCLEAVERSNNINAPPROPRIATESYSTEM | "X'00000010" |
| | | .1.. | | IXCLEAVERSBNPLISTRSDNOTVALID | "X'00000040" |
| 0 | (0) | BITSTRING | 0 | IXCLEAVERSBNPLISTBADALET | "X'00000100" |

IXCYCON Map

| Offsets | | | | | |
|---|------|------------|-----|----------------------------------|--------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | BITSTRING | 0 | IXCLEAVERSBNPLISTVERSIONNOTVALID | "X'00000104" |
| 0 | (0) | BITSTRING | 0 | IXCLEAVERSBNPLISTBADFUNCTION | "X'00000108" |
| 0 | (0) | BITSTRING | 0 | IXCLEAVERSBNPLISTBADSTG | "X'0000010C" |
| 0 | (0) | BITSTRING | 0 | IXCLEAVERSNUSTATEBADSTG | "X'00000110" |
| 0 | (0) | BITSTRING | 0 | IXCLEAVERSNULENBADVALUE | "X'00000114" |
| 0 | (0) | BITSTRING | 0 | IXCLEAVERSNNOTTASKMODE | "X'00000118" |
| 0 | (0) | BITSTRING | 0 | IXCLEAVERSNNOTENABLED | "X'0000011C" |
| 0 | (0) | BITSTRING | 0 | IXCLEAVERSNNPRIMARYNOTHOME | "X'00000120" |
| Comment | | | | | |
| IXCLEAVE Reason codes for return code C | | | | | |
| End of Comment | | | | | |
| ... | 1... | | | IXCLEAVERSNTASKABENDED | "X'00000018" |
| Comment | | | | | |
| ----- | | | | | |
| Constants for use with IXCMG service | | | | | |
| ----- | | | | | |
| IXCMG Reason codes for return code 4 | | | | | |
| End of Comment | | | | | |
| .... | .1.. | | | IXCMGRSNSTILLMOREDATA | "X'00000004" |
| Comment | | | | | |
| IXCMG Reason codes for return code 8 | | | | | |
| End of Comment | | | | | |
| ... | .1.. | | | IXCMGRSNDATAAREATOOSMALL | "X'00000014" |
| ... | 1... | | | IXCMGRSNDATAAREABADSTG | "X'00000018" |
| ... | 11.. | | | IXCMGRSNDATAAREABADALET | "X'0000001C" |
| .1.. | .... |  |  | IXCMGRSNPLISTRSDNOTVALID | "X'00000040" |
| 0 | (0) | BITSTRING | 0 | IXCMGRSNPLISTBADALET | "X'00000100" |
| 0 | (0) | BITSTRING | 0 | IXCMGRSNPLISTVERSIONNOTVALID | "X'00000104" |
| 0 | (0) | BITSTRING | 0 | IXCMGRSNPLISTBADFUNCTION | "X'00000108" |
| 0 | (0) | BITSTRING | 0 | IXCMGRSNPLISTBADSTG | "X'0000010C" |
| 0 | (0) | BITSTRING | 0 | IXCMGRSNPLISTBADAMDALEVEL | "X'00000110" |
| 0 | (0) | BITSTRING | 0 | IXCMGRSNPLISTBADMEMTOKEN | "X'00000114" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|--|-----|------------|-----|-------------------------------|--------------|
| Dec | Hex | | | | |
| Comment | | | | | |
| IXCMG Reason codes for return code C | | | | | |
| None | | | | | |
| ----- | | | | | |
| Constants for use with IXCMOD service | | | | | |
| ----- | | | | | |
| IXCMOD Reason codes for return code 4 | | | | | |
| None | | | | | |
| IXCMOD Reason codes for return code 8 | | | | | |
| End of Comment | | | | | |
| | |1.. | | IXCMODRSNNOTACTIVE | "X'00000004" |
| | | 1... | | IXCMODRSNNOSTATUSMON | "X'00000008" |
| | | 11.. | | IXCMODRSNINTERVALBAD | "X'0000000C" |
| | | ...1 | | IXCMODRSNINAPPROPRIATECALLER | "X'00000010" |
| | | .1.. | | IXCMODRSNPLISTRSDNOTVALID | "X'00000040" |
| 0 | (0) | BITSTRING | 0 | IXCMODRSNPLISTBADALET | "X'00000100" |
| 0 | (0) | BITSTRING | 0 | IXCMODRSNPLISTVERSIONNOTVALID | "X'00000104" |
| 0 | (0) | BITSTRING | 0 | IXCMODRSNPLISTBADFUNCTION | "X'00000108" |
| 0 | (0) | BITSTRING | 0 | IXCMODRSNPLISTBADSTG | "X'0000010C" |
| 0 | (0) | BITSTRING | 0 | IXCMODRSNNOTTASKMODE | "X'00000118" |
| 0 | (0) | BITSTRING | 0 | IXCMODRSNNOTENABLED | "X'0000011C" |
| 0 | (0) | BITSTRING | 0 | IXCMODRSNPRIMARYNOTHOME | "X'00000120" |
| Comment | | | | | |
| IXCMOD Reason codes for return code C | | | | | |
| End of Comment | | | | | |
| | | ...1 1... | | IXCMODRSNTASKABENDED | "X'00000018" |
| Comment | | | | | |
| ----- | | | | | |
| Constants for use with IXCMMSGC service | | | | | |
| ----- | | | | | |
| Codes for IXCMMSGC are defined in the IXCYMSGC macro | | | | | |
| ----- | | | | | |
| Constants for use with IXCMSGI service | | | | | |
| ----- | | | | | |
| IXCMSGI Reason codes for return code 4 | | | | | |
| End of Comment | | | | | |
| 0 | (0) | BITSTRING | 0 | IXCMSGIRSNSTILLMOREDATA | "X'00000224" |

IXCYCON Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|--|-----|------------|-----|----------------------------------|--------------|
| Dec | Hex | | | | |
| Comment | | | | | |
| IXCMSGI Reason codes for return code 8 | | | | | |
| End of Comment | | | | | |
| | |1.. | | IXCMSGIRSNMSGBUFBADSTG | "X'00000004" |
| | | 1... | | IXCMSGIRSNMSGALREADYDELIVERED | "X'00000008" |
| | | 1..1 | | IXCMSGIRSNMEMBERNOTACTIVE | "X'00000009" |
| | | 11.. | | IXCMSGIRSNMSGBUFBADALET | "X'0000000C" |
| | | .1.. | | IXCMSGIRSNPLISTRVDNOTVALID | "X'00000040" |
| | | .1.. .1.. | | IXCMSGIRSNMSGTOKENNOTVALID | "X'00000044" |
| | | .1.. .1.1 | | IXCMSGIRSNUSETOKENKEYWORD | "X'00000045" |
| 0 | (0) | BITSTRING | 0 | IXCMSGIRSNPLISTBADALET | "X'00000100" |
| 0 | (0) | BITSTRING | 0 | IXCMSGIRSNPLISTVERSIONNOTVALID | "X'00000104" |
| 0 | (0) | BITSTRING | 0 | IXCMSGIRSNPLISTBADSTG | "X'0000010C" |
| 0 | (0) | BITSTRING | 0 | IXCMSGIRSNMSGBUFSTGKEYMISMATCH | "X'0000020C" |
| 0 | (0) | BITSTRING | 0 | IXCMSGIRSNMSGBUFPAGEPROTECT | "X'0000020D" |
| 0 | (0) | BITSTRING | 0 | IXCMSGIRSNPARTPTROFFBADSTG | "X'00000210" |
| 0 | (0) | BITSTRING | 0 | IXCMSGIRSNELEMENTBADALET | "X'00000212" |
| 0 | (0) | BITSTRING | 0 | IXCMSGIRSNNEXTPTROFFBADSTG | "X'00000213" |
| 0 | (0) | BITSTRING | 0 | IXCMSGIRSN#MSGPARTSZERO | "X'00000214" |
| 0 | (0) | BITSTRING | 0 | IXCMSGIRSNTOOMANYZEROLENPARTS | "X'00000215" |
| 0 | (0) | BITSTRING | 0 | IXCMSGIRSNPARTPTROFF@BADSTG | "X'00000218" |
| 0 | (0) | BITSTRING | 0 | IXCMSGIRSNPARTOFFBADSTG | "X'00000219" |
| 0 | (0) | BITSTRING | 0 | IXCMSGIRSNPARTPTROFF@PAGEPROTECT | "X'0000021A" |
| 0 | (0) | BITSTRING | 0 | IXCMSGIRSNPARTOFFPAGEPROTECT | "X'0000021B" |
| 0 | (0) | BITSTRING | 0 | IXCMSGIRSNPARTPTROFF@KEYMISMATCH | "X'0000021C" |
| 0 | (0) | BITSTRING | 0 | IXCMSGIRSNPARTOFFKEYMISMATCH | "X'0000021D" |
| 0 | (0) | BITSTRING | 0 | IXCMSGIRSNPARTLENTBLBADSTG | "X'00000220" |
| 0 | (0) | BITSTRING | 0 | IXCMSGIRSNPARTLENTBLNOTWORDBDY | "X'00000221" |
| 0 | (0) | BITSTRING | 0 | IXCMSGIRSNPARTLENTBLBADALET | "X'00000222" |
| 0 | (0) | BITSTRING | 0 | IXCMSGIRSNPARTLENOFFBADSTG | "X'00000223" |
| 0 | (0) | BITSTRING | 0 | IXCMSGIRSNPARTALETTLBADSTG | "X'00000230" |
| 0 | (0) | BITSTRING | 0 | IXCMSGIRSNPARTALETTLBLNOTWORDBDY | "X'00000231" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---|-----|------------|-----|----------------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IXCMMSGIRSNPARTALETTLBADALET | "X'00000232" |
| 0 | (0) | BITSTRING | 0 | IXCMMSGIRSNPARTALETTOFFBADSTG | "X'00000233" |
| 0 | (0) | BITSTRING | 0 | IXCMMSGIRSNPARTALET@BADALET | "X'00000234" |
| 0 | (0) | BITSTRING | 0 | IXCMMSGIRSNPARTALETTLB@BADALET | "X'00000235" |
| 0 | (0) | BITSTRING | 0 | IXCMMSGIRSNPARTALETTOFF@BADALET | "X'00000236" |
| 0 | (0) | BITSTRING | 0 | IXCMMSGIRSNPLISTNOPARTINFOBADSTG | "X'010C0000" For PlistNoPartInfoBadStg, the low order halfword contains the rsncode that would have been returned if the part info was stored successfully. Zero the lower halfword of the rsncode before comparing to this constant. |
| Comment | | | | | |
| ----- | | | | | |
| Constants for use with IXCMMSGO service | | | | | |
| ----- | | | | | |
| IXCMMSGO Reason codes for return code 4 | | | | | |
| End of Comment | | | | | |
| 0 | (0) | BITSTRING | 0 | IXCMMSGORSNSENDEPENDING | "X'00000401" |
| 0 | (0) | BITSTRING | 0 | IXCMMSGORSNBCEPENDINGNOREJECTS | "X'00000402" |
| 0 | (0) | BITSTRING | 0 | IXCMMSGORSNBCEPENDINGWITHREJECTS | "X'00000403" |
| 0 | (0) | BITSTRING | 0 | IXCMMSGORSNBCCOMPLETewithREJECTS | "X'00000404" |
| 0 | (0) | BITSTRING | 0 | IXCMMSGORSNRETMSGOTOKENNOACCESS | "X'04050000" For MsgoTokenNoAccess, the low order halfword contains the rsncode that would have been returned if the token was stored successfully. Zero the lower halfword of the rsncode before comparing to this constant. |
| 0 | (0) | BITSTRING | 0 | IXCMMSGORSNASYNCEPENDING | "X'00000410" |
| Comment | | | | | |
| IXCMMSGO Reason codes for return code 8 | | | | | |
| End of Comment | | | | | |
| | |1.. | | IXCMMSGORSNSENDEPENDINGNOTVALID | "X'00000004" |
| | | 1... | | IXCMMSGORSNTARGETNOTVALID | "X'00000008" |
| | | 11.. | | IXCMMSGORSNMSGLENNOTVALID | "X'0000000C" |
| | | ...1 | | IXCMMSGORSNMSGBUFBADSTG | "X'00000010" |
| | | ...1 .1.. | | IXCMMSGORSNMSGCNTLBADALET | "X'00000014" |
| | | ...1 1... | | IXCMMSGORSNMSGCNTLBADSTG | "X'00000018" |
| | | ...1 11.. | | IXCMMSGORSNTARGETNOMSGEXIT | "X'0000001C" |
| | | .1.. | | IXCMMSGORSNPLISTRVDNOTVALID | "X'00000040" |
| 0 | (0) | BITSTRING | 0 | IXCMMSGORSNPLISTBADALET | "X'00000100" |
| 0 | (0) | BITSTRING | 0 | IXCMMSGORSNPLISTVERSIONNOTVALID | |

IXCYCON Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|---------------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IXCMGORSNPLISTBADSTG | "X'00000104" |
| 0 | (0) | BITSTRING | 0 | IXCMGORSNPLISTNOPARTINFOBADSTG | "X'0000010C" "X'010C0000" For PlistNoPartInfoBadStg, the low order halfword contains the rsncode that would have been returned if the part info was stored successfully. Zero the lower halfword of the rsncode before comparing to this constant. |
| 0 | (0) | BITSTRING | 0 | IXCMGORSNNOTENABLED | "X'0000011C" |
| 0 | (0) | BITSTRING | 0 | IXCMGORSNLOCKHELD | "X'0000012C" |
| 0 | (0) | BITSTRING | 0 | IXCMGORSNMSGBUFBADALET | "X'00000208" |
| 0 | (0) | BITSTRING | 0 | IXCMGORSNMSGBUFKEYMISMATCH | "X'0000020C" |
| 0 | (0) | BITSTRING | 0 | IXCMGORSNPARTPTROFFBADSTG | "X'00000210" |
| 0 | (0) | BITSTRING | 0 | IXCMGORSNELEMENTBADALET | "X'00000212" |
| 0 | (0) | BITSTRING | 0 | IXCMGORSNNEXTPTROFFBADSTG | "X'00000213" |
| 0 | (0) | BITSTRING | 0 | IXCMGORSN#MSGPARTSZERO | "X'00000214" |
| 0 | (0) | BITSTRING | 0 | IXCMGORSNTOOMANYZEROLENPARTS | "X'00000215" |
| 0 | (0) | BITSTRING | 0 | IXCMGORSNPARTPTROFF@BADSTG | "X'00000218" |
| 0 | (0) | BITSTRING | 0 | IXCMGORSNPARTOFFBADSTG | "X'00000219" |
| 0 | (0) | BITSTRING | 0 | IXCMGORSNPARTPTROFF@KEYMISMATCH | "X'0000021C" |
| 0 | (0) | BITSTRING | 0 | IXCMGORSNPARTOFFKEYMISMATCH | "X'0000021D" |
| 0 | (0) | BITSTRING | 0 | IXCMGORSNPARTLENTBLBADSTG | "X'00000220" |
| 0 | (0) | BITSTRING | 0 | IXCMGORSNPARTLENTBLNOTWORDBDY | "X'00000221" |
| 0 | (0) | BITSTRING | 0 | IXCMGORSNPARTLENTBLBADALET | "X'00000222" |
| 0 | (0) | BITSTRING | 0 | IXCMGORSNPARTLENOFFBADSTG | "X'00000223" |
| 0 | (0) | BITSTRING | 0 | IXCMGORSNMSGLENGTSUMPARTLEN | "X'00000224" |
| 0 | (0) | BITSTRING | 0 | IXCMGORSNPARTLENBADLEN | "X'00000225" |
| 0 | (0) | BITSTRING | 0 | IXCMGORSNPARTLENTBLBADLEN | "X'00000226" |
| 0 | (0) | BITSTRING | 0 | IXCMGORSNPARTLENOFFBADLEN | "X'00000227" |
| 0 | (0) | BITSTRING | 0 | IXCMGORSNPARTALETTBLBADSTG | "X'00000230" |
| 0 | (0) | BITSTRING | 0 | IXCMGORSNPARTALETTBLNOTWORDBDY | "X'00000231" |
| 0 | (0) | BITSTRING | 0 | IXCMGORSNPARTALETTBLBADALET | "X'00000232" |
| 0 | (0) | BITSTRING | 0 | IXCMGORSNPARTALETOFFBADSTG | "X'00000233" |
| 0 | (0) | BITSTRING | 0 | IXCMGORSNPARTALET@BADALET | "X'00000234" |
| 0 | (0) | BITSTRING | 0 | IXCMGORSNPARTALETTBL@BADALET | "X'00000235" |
| 0 | (0) | BITSTRING | 0 | IXCMGORSNPARTALETOFF@BADALET | "X'00000236" |

| Offsets | | | | | |
|---------|-----|------------|-----|--------------------------------|--------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | BITSTRING | 0 | IXCMGORSNSENDEARNONOTIFYEXIT | "X'00000300" |
| 0 | (0) | BITSTRING | 0 | IXCMGORSNTARGETSBADALET | "X'00000304" |
| 0 | (0) | BITSTRING | 0 | IXCMGORSNRETMMSGOTOKENBADALET | "X'00000308" |
| 0 | (0) | BITSTRING | 0 | IXCMGORSNBADRESPONSEID | "X'0000030C" |
| 0 | (0) | BITSTRING | 0 | IXCMGORSNBADSTREAMID | "X'00000310" |
| 0 | (0) | BITSTRING | 0 | IXCMGORSNTARGETSBADSTG | "X'00000314" |
| 0 | (0) | BITSTRING | 0 | IXCMGORSNBAD#TARGETS | "X'00000320" |
| 0 | (0) | BITSTRING | 0 | IXCMGORSNBADTIMEOUT | "X'00000324" |
| 0 | (0) | BITSTRING | 0 | IXCMGORSNTARGETMAXMSGLEN61K | "X'00000340" |
| 0 | (0) | BITSTRING | 0 | IXCMGORSNSENDEARBECAMEINACTIVE | "X'00000344" |

Comment

IXCMGSO Reason codes for return code 12

End of Comment

| | | | |
|------|------|------------------------------|--------------|
| .... | .1.. | IXCMGORSNNOBUFFER | "X'00000004" |
| .... | 1... | IXCMGORSNNOPATH | "X'00000008" |
| .... | 11.. | IXCMGORSNNOMSGSPACE | "X'0000000C" |
| ...1 | .... | IXCMGORSNSYSTEMNOSTORAGE | "X'00000010" |
| ...1 | .1.. | IXCMGORSNNOBUFFERNOTQUEUED | "X'00000014" |
| ...1 | 1... | IXCMGORSNNOPATHNOTQUEUED | "X'00000018" |
| ...1 | 11.. | IXCMGORSNMSGPENDINGMUSTQUEUE | "X'0000001C" |
| ..1. | .... | IXCMGORSNDUALFULL | "X'00000020" |
| ..1. | .1.. | IXCMGORSNDUALNOSTORAGE | "X'00000024" |
| ..1. | 1... | IXCMGORSNDUALNOTSUITABLE | "X'00000028" |

Comment

Constants for use with IXCQUERY service

Codes for IXCQUERY are defined in the IXCYQUAA macro

Constants for use with IXCQUIES service

IXCQUIES Reason codes for return code 4

End of Comment

| | | | |
|------|------|---------------------------|--------------|
| | .1.. | IXCQUIESRSNEXITSNOTPURGED | "X'00000004" |
|------|------|---------------------------|--------------|

IXCYCON Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---|------|------------|-----|---------------------------------|--------------|
| Dec | Hex | | | | |
| Comment | | | | | |
| IXCQUIES Reason codes for return code 8 | | | | | |
| End of Comment | | | | | |
|  | .... | .1.. | | IXCQUIESRSNNOTACTIVE | "X'00000004" |
|  | .... | 1... | | IXCQUIESRSNINAPPROPRIATEPRIMARY | "X'00000008" |
|  | .... | 11.. | | IXCQUIESRSNNOTLASTING | "X'0000000C" |
| | ...1 | .... |  | IXCQUIESRSNINAPPROPRIATESYSTEM | "X'00000010" |
| | .1.. | .... |  | IXCQUIESRSNPLISTRSDNOTVALID | "X'00000040" |
| 0 | (0) | BITSTRING | 0 | IXCQUIESRSNPLISTBADALET | "X'00000100" |
| 0 | (0) | BITSTRING | 0 | IXCQUIESRSNPLISTVERSIONNOTVALID | "X'00000104" |
| 0 | (0) | BITSTRING | 0 | IXCQUIESRSNPLISTBADFUNCTION | "X'00000108" |
| 0 | (0) | BITSTRING | 0 | IXCQUIESRSNPLISTBADSTG | "X'0000010C" |
| 0 | (0) | BITSTRING | 0 | IXCQUIESRSNUSTATEBADSTG | "X'00000110" |
| 0 | (0) | BITSTRING | 0 | IXCQUIESRSNUSLENBADVALUE | "X'00000114" |
| 0 | (0) | BITSTRING | 0 | IXCQUIESRSNNOTTASKMODE | "X'00000118" |
| 0 | (0) | BITSTRING | 0 | IXCQUIESRSNNOTENABLED | "X'0000011C" |
| 0 | (0) | BITSTRING | 0 | IXCQUIESRSNPRIMARYNOTHOME | "X'00000120" |
| Comment | | | | | |
| IXCQUIES Reason codes for return code C | | | | | |
| End of Comment | | | | | |
| | ...1 | 1... | | IXCQUIESRSNTASKABENDED | "X'00000018" |
| Comment | | | | | |
| ----- Constants for use with IXCSETUS service ----- | | | | | |
| IXCSETUS Reason codes for return code 4 | | | | | |
| End of Comment | | | | | |
|  | .... | .1.. | | IXCSETUSRSNNOCHANGEOLDEQNEW | "X'00000004" |
|  | .... | 1... | | IXCSETUSRSNNOCHANGEOLDNECOMPUS | "X'00000008" |
| Comment | | | | | |
| IXCSETUS Reason codes for return code 8 | | | | | |
| End of Comment | | | | | |
|  | .... | .1.. | | IXCSETUSRSNNOTACTIVE | "X'00000004" |
|  | .... | 1... | | IXCSETUSRSNINAPPROPRIATEPRIMARY | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---|-----|------------|-----|---------------------------------|---|
| Dec | Hex | | | | |
| | | 11.. | | IXCSETUSRSNTARGETDIFFERENTGROUP | "X'00000008" |
| | | ...1 | | IXCSETUSRSNTARGETNOTVALID | "X'0000000C" |
| | | ...1 .1.. | | IXCSETUSRSNOLDUSALETNOTPRIMARY | "X'00000010" |
| | | ...1 1... | | IXCSETUSRSNOLDUSBADSTGNOTCOMMON | "X'00000014" |
| | | ..1. 1... | | IXCSETUSRSNOLDUSBADALET | "X'00000018" |
| | | ..11 11.. | | IXCSETUSRSNOLDUSINCOMPLETE | "X'00000028" |
| | | | | | "X'0000003C" For SetusRsnOldusIncomplete, the high order halfword contains "xxyy" which indicates the return code "xx" and reason code "yy" that would have been returned had the OLDUS area been completely filled in. |
| | | .1.. | | IXCSETUSRSNPLISTRSDNOTVALID | "X'00000040" |
| 0 | (0) | BITSTRING | 0 | IXCSETUSRSNPLISTBADALET | "X'00000100" |
| 0 | (0) | BITSTRING | 0 | IXCSETUSRSNPLISTVERSIONNOTVALID | "X'00000104" |
| 0 | (0) | BITSTRING | 0 | IXCSETUSRSNPLISTBADFUNCTION | "X'00000108" |
| 0 | (0) | BITSTRING | 0 | IXCSETUSRSNPLISTBADSTG | "X'0000010C" |
| 0 | (0) | BITSTRING | 0 | IXCSETUSRSNNEWUSNOTACCESSIBLE | "X'00000110" |
| 0 | (0) | BITSTRING | 0 | IXCSETUSRSNUSLENBADVALUE | "X'00000114" |
| 0 | (0) | BITSTRING | 0 | IXCSETUSRSNNOTTASKMODE | "X'00000118" |
| 0 | (0) | BITSTRING | 0 | IXCSETUSRSNNOTENABLED | "X'0000011C" |
| 0 | (0) | BITSTRING | 0 | IXCSETUSRSNCOMPUSNOTACCESSIBLE | "X'00000124" |
| Comment | | | | | |
| IXCSETUS Reason codes for return code C | | | | | |
| End of Comment | | | | | |
| | | ...1 1... | | IXCSETUSRSNTASKABENDED | "X'00000018" |
| Comment | | | | | |
| ----- Constants for use with IXCSYSCL service ----- | | | | | |
| IXCSYSCL Reason codes for return code 4 | | | | | |
| None | | | | | |
| IXCSYSCL Reason codes for return code 8 | | | | | |
| End of Comment | | | | | |
| | |1.. | | IXCSYSCLRSNNOTACTIVE | "X'00000004" |
| | | 1... | | IXCSYSCLRSNINAPPROPRIATEPRIMARY | "X'00000008" |
| | | 11.. | | IXCSYSCLRSNSYSCLEANUPMEMNO | "X'0000000C" |
| | | ...1 | | IXCSYSCLRSNFAILEDSYSNOTVALID | "X'00000010" |
| | | .1.. | | IXCSYSCLRSNPLISTRSDNOTVALID | |

IXCYCON Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|--|-----|------------|-----|---------------------------------|--------------|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IXCSYSLRSNPLISTBADALET | "X'00000040" |
| 0 | (0) | BITSTRING | 0 | IXCSYSLRSNPLISTVERSIONNOTVALID | "X'00000100" |
| 0 | (0) | BITSTRING | 0 | IXCSYSLRSNPLISTBADFUNCTION | "X'00000104" |
| 0 | (0) | BITSTRING | 0 | IXCSYSLRSNPLISTBADSTG | "X'00000108" |
| 0 | (0) | BITSTRING | 0 | IXCSYSLRSNNOTENABLED | "X'0000010C" |
| 0 | (0) | BITSTRING | 0 | IXCSYSLRSNLOCKHELD | "X'0000011C" |
| 0 | (0) | BITSTRING | 0 | | "X'0000012C" |
| Comment | | | | | |
| IXCSYSL Reason codes for return code C | | | | | |
| None | | | | | |
| ----- | | | | | |
| Constants for use with IXCTERM service | | | | | |
| ----- | | | | | |
| IXCTERM Reason codes for return code 4 | | | | | |
| None | | | | | |
| IXCTERM Reason codes for return code 8 | | | | | |
| End of Comment | | | | | |
| | |1.. | | IXCTERMRSNNOTACTIVE | "X'00000004" |
| | | 1... | | IXCTERMRSNINAPPROPRIATEPRIMARY | "X'00000008" |
| | | 11.. | | IXCTERMRSNTARGETNOTACTIVE | "X'0000000C" |
| | | ...1 | | IXCTERMRSNTARGETNOTDEFINED | "X'00000010" |
| | | ...1 .1.. | | IXCTERMRSNTARGETDIFFERENTGROUP | "X'00000014" |
| | | ...1 1... | | IXCTERMRSNTARGETNOTVALID | "X'00000018" |
| | | ...1 11.. | | IXCTERMRSNMEMTOKENNOTVALID | "X'0000001C" |
| | | .1.. | | IXCTERMRSNPLISTRSDNOTVALID | "X'00000040" |
| 0 | (0) | BITSTRING | 0 | IXCTERMRSNPLISTBADALET | "X'00000100" |
| 0 | (0) | BITSTRING | 0 | IXCTERMRSNPLISTVERSIONNOTVALID | "X'00000104" |
| 0 | (0) | BITSTRING | 0 | IXCTERMRSNPLISTBADFUNCTION | "X'00000108" |
| 0 | (0) | BITSTRING | 0 | IXCTERMRSNPLISTBADSTG | "X'0000010C" |
| 0 | (0) | BITSTRING | 0 | IXCTERMRSNNOTTASKMODE | "X'00000118" |
| 0 | (0) | BITSTRING | 0 | IXCTERMRSNNOTENABLED | "X'0000011C" |
| 0 | (0) | BITSTRING | 0 | IXCTERMRSNTARGETNOTMEMASSOCTASK | "X'00000120" |

IXCYCON Cross Reference

| Name | Hex Offset | Hex Value |
|---------------------------------|---------------|--------------|
| IXCCREATRSNALREADYCREATED | 0 | 4 |
| IXCCREATRSNANSAREAINCOMPLETE | 0 | 3C |
| IXCCREATRSNFIRSTMEMBER | 0 | 0 |
| IXCCREATRSNGRPNAMBAD | 0 | 14 |
| IXCCREATRSNISACTIVE | 0 | 8 |
| IXCCREATRSNISFAILED | 0 | 10 |
| IXCCREATRSNISQUIESCED | 0 | C |
| IXCCREATRSNMAXGROUPS | 0 | 4 |
| IXCCREATRSNMAXMEMBERS | 0 | 8 |
| IXCCREATRSNMEMNAMEBAD | 0 | 18 |
| IXCCREATRSNNOTENABLED | 0 | 11C |
| IXCCREATRSNNOTTASKMODE | 0 | 118 |
| IXCCREATRSNPARTITIONING | 0 | 10 |
| IXCCREATRSNPLISTBADALET | 0 | 100 |
| IXCCREATRSNPLISTBADFUNCTION | 0 | 108 |
| IXCCREATRSNPLISTBADSTG | 0 | 10C |
| IXCCREATRSNPLISTRSDNOTVALID | 0 | 40 |
| IXCCREATRSNPLISTVERSIONNOTVALID | 0 | 104 |
| IXCCREATRSNTASKABENDED | 0 | 18 |
| IXCCREATRSNUSLENBADVALUE | 0 | 114 |
| IXCCREATRSNUSTATEBADSTG | 0 | 110 |
| IXCCREATRSNXCFLOCALMODE | 0 | 14 |
| IXCDELETRSNNINAPPROPRIATESTATE | 0 | 8 |
| IXCDELETRSNNOTDEFINED | 0 | 4 |
| IXCDELETRSNNOTENABLED | 0 | 11C |
| IXCDELETRSNNOTTASKMODE | 0 | 118 |
| IXCDELETRSNPLISTBADALET | 0 | 100 |
| IXCDELETRSNPLISTBADFUNCTION | 0 | 108 |
| IXCDELETRSNPLISTBADSTG | 0 | 10C |
| IXCDELETRSNPLISTRSDNOTVALID | 0 | 40 |
| IXCDELETRSNPLISTVERSIONNOTVALID | 0 | 104 |
| IXCDELETRSNTASKABENDED | | |

| Name | Hex Offset | Hex Value |
|--------------------------------|---------------|--------------|
| IXCJOINRSNANSAREAINCOMPLETE | 0 | 18 |
| IXCJOINRSNFIRSTACTIVEMEMBER | 0 | 3C |
| IXCJOINRSNGRPNAMBAD | 0 | 4 |
| IXCJOINRSNINTERVALBAD | 0 | 14 |
| IXCJOINRSNISACTIVE | 0 | 1C |
| IXCJOINRSNISFAILED | 0 | 8 |
| IXCJOINRSNISCREATED | 0 | 4 |
| IXCJOINRSNISFAILED | 0 | 10 |
| IXCJOINRSNISQUIESCED | 0 | C |
| IXCJOINRSNLASTINGNEEDSMEMNAME | 0 | 24 |
| IXCJOINRSNMAXGROUPS | 0 | 4 |
| IXCJOINRSNMAXMEMBERS | 0 | 8 |
| IXCJOINRSNMEMASSOCBAD | 0 | 44 |
| IXCJOINRSNMEMNAMEBAD | 0 | 18 |
| IXCJOINRSNNOTENABLED | 0 | 11C |
| IXCJOINRSNNOTTASKMODE | 0 | 118 |
| IXCJOINRSNPARTITIONING | 0 | 10 |
| IXCJOINRSNPLISTBADALET | 0 | 100 |
| IXCJOINRSNPLISTBADFUNCTION | 0 | 108 |
| IXCJOINRSNPLISTBADSTG | 0 | 10C |
| IXCJOINRSNPLISTRSDNOTVALID | 0 | 40 |
| IXCJOINRSNPLISTVERSIONNOTVALID | 0 | 104 |
| IXCJOINRSNPRIMARYNOTHOME | 0 | 120 |
| IXCJOINRSNSTATFLDBADSTG | 0 | 20 |
| IXCJOINRSNSTATUSMONINCOMPLETE | 0 | 28 |
| IXCJOINRSNTASKTERM | 0 | 128 |
| IXCJOINRSNUSLENBADVALUE | 0 | 114 |
| IXCJOINRSNUSTATEBADSTG | 0 | 110 |
| IXCJOINRSNWASCREATED | 0 | 10 |
| IXCJOINRSNWASFAILED | 0 | 8 |
| IXCJOINRSNWASQUIESCED | 0 | C |
| IXCJOINRSNXCFLOCALMODE | 0 | 14 |

IXCYCON Cross Reference

| Name | Hex Offset | Hex Value |
|----------------------------------|---------------|--------------|
| IXCLEAVERSNEEXITSNOTPURGED | 0 | 4 |
| IXCLEAVERSNNINAPPROPRIATEPRIMARY | 0 | 8 |
| IXCLEAVERSNNINAPPROPRIATESYSTEM | 0 | 10 |
| IXCLEAVERSNNNOTACTIVE | 0 | 4 |
| IXCLEAVERSNNNOTENABLED | 0 | 11C |
| IXCLEAVERSNNNOTTASKMODE | 0 | 118 |
| IXCLEAVERSNNLISTBADALET | 0 | 100 |
| IXCLEAVERSNNLISTBADFUNCTION | 0 | 108 |
| IXCLEAVERSNNLISTBADSTG | 0 | 10C |
| IXCLEAVERSNNLISTRSVDNOTVALID | 0 | 40 |
| IXCLEAVERSNNLISTVERSIONNOTVALID | 0 | 104 |
| IXCLEAVERSNNPRIMARYNOTHOME | 0 | 120 |
| IXCLEAVERSNTASKABENDED | 0 | 18 |
| IXCLEAVERSNNUSLENBADVALUE | 0 | 114 |
| IXCLEAVERSNNSTATEBADSTG | 0 | 110 |
| IXCMGRSNDATAAREABADALET | 0 | 1C |
| IXCMGRSNDATAAREABADSTG | 0 | 18 |
| IXCMGRSNDATAAREATOOSMALL | 0 | 14 |
| IXCMGRSNPLISTBADALET | 0 | 100 |
| IXCMGRSNPLISTBADAMDALEVEL | 0 | 110 |
| IXCMGRSNPLISTBADFUNCTION | 0 | 108 |
| IXCMGRSNPLISTBADMEMTOKEN | 0 | 114 |
| IXCMGRSNPLISTBADSTG | 0 | 10C |
| IXCMGRSNPLISTRSDNOTVALID | 0 | 40 |
| IXCMGRSNPLISTVERSIONNOTVALID | 0 | 104 |
| IXCMGRSNSTILLMOREDATA | 0 | 4 |
| IXCMODRSNNINAPPROPRIATECALLER | 0 | 10 |
| IXCMODRSNNINTERVALBAD | 0 | C |
| IXCMODRSNNNOSTATUSMON | 0 | 8 |
| IXCMODRSNNNOTACTIVE | 0 | 4 |
| IXCMODRSNNNOTENABLED | 0 | 11C |
| IXCMODRSNNNOTTASKMODE | 0 | 118 |
| IXCMODRSNNLISTBADALET | | |

| Name | Hex Offset | Hex Value |
|-------------------------------------|---------------|--------------|
| | 0 | 100 |
| IXCMODRSNNLISTBADFUNCTION | 0 | 108 |
| IXCMODRSNNLISTBADSTG | 0 | 10C |
| IXCMODRSNNLISTRSVDNOTVALID | 0 | 40 |
| IXCMODRSNNLISTVERSIONNOTVALID | 0 | 104 |
| IXCMODRSNNPRIMARYNOTHOME | 0 | 120 |
| IXCMODRSNTASKABENDED | 0 | 18 |
| IXCMMSGIRSN#MSGPARTSZERO | 0 | 214 |
| IXCMMSGIRSN#ELEMENTBADALET | 0 | 212 |
| IXCMMSGIRSN#MEMBERNOTACTIVE | 0 | 9 |
| IXCMMSGIRSN#MSGALREADYDELIVERED | 0 | 8 |
| IXCMMSGIRSN#MSGBUF#BADALET | 0 | C |
| IXCMMSGIRSN#MSGBUF#BADSTG | 0 | 4 |
| IXCMMSGIRSN#MSGBUF#PAGEPROTECT | 0 | 20D |
| IXCMMSGIRSN#MSGBUF#STGKEYMISMATCH | 0 | 20C |
| IXCMMSGIRSN#MSGTOKENNOTVALID | 0 | 44 |
| IXCMMSGIRSN#NEXTPTROFF#BADSTG | 0 | 213 |
| IXCMMSGIRSN#PARTALET@BADALET | 0 | 234 |
| IXCMMSGIRSN#PARTALET@OFF@BADALET | 0 | 236 |
| IXCMMSGIRSN#PARTALET@OFF#BADSTG | 0 | 233 |
| IXCMMSGIRSN#PARTALET@TBL@BADALET | 0 | 235 |
| IXCMMSGIRSN#PARTALET@TBL#BADALET | 0 | 232 |
| IXCMMSGIRSN#PARTALET@TBL#BADSTG | 0 | 230 |
| IXCMMSGIRSN#PARTALET@TBL#NOTWORDBDY | 0 | 231 |
| IXCMMSGIRSN#PARTLEN@OFF#BADSTG | 0 | 223 |
| IXCMMSGIRSN#PARTLEN@TBL#BADALET | 0 | 222 |
| IXCMMSGIRSN#PARTLEN@TBL#BADSTG | 0 | 220 |
| IXCMMSGIRSN#PARTLEN@TBL#NOTWORDBDY | 0 | 221 |
| IXCMMSGIRSN#PART@OFF#BADSTG | 0 | 219 |
| IXCMMSGIRSN#PART@OFF#KEYMISMATCH | 0 | 21D |
| IXCMMSGIRSN#PART@OFF#PAGEPROTECT | 0 | 21B |
| IXCMMSGIRSN#PARTPTROFF@BADSTG | 0 | 218 |
| IXCMMSGIRSN#PARTPTROFF@KEYMISMATCH | 0 | 21C |

| Name | Hex Offset | Hex Value |
|---------------------------------|------------|-----------|
| IXCMGIRSNPARTPTROFF@PAGEPROTECT | 0 | 21A |
| IXCMGIRSNPARTPTROFFBADSTG | 0 | 210 |
| IXCMGIRSNPLISTBADALET | 0 | 100 |
| IXCMGIRSNPLISTBADSTG | 0 | 10C |
| IXCMGIRSNPLISTNOPARTINFOBADSTG | 0 | C0000 |
| IXCMGIRSNPLISTRSDNOTVALID | 0 | 40 |
| IXCMGIRSNPLISTVERSIONNOTVALID | 0 | 104 |
| IXCMGIRSNSTILLMOREDATA | 0 | 224 |
| IXCMGIRSNTOOMANYZEROLENPARTS | 0 | 215 |
| IXCMGIRSNUSETOKENKEYWORD | 0 | 45 |
| IXCMGORSN#MSGPARTSZERO | 0 | 214 |
| IXCMGORSNASYNCSENDPENDING | 0 | 410 |
| IXCMGORSNBAD#TARGETS | 0 | 320 |
| IXCMGORSNBADRESPONSEID | 0 | 30C |
| IXCMGORSNBADSTREAMID | 0 | 310 |
| IXCMGORSNBADTIMEOUT | 0 | 324 |
| IXCMGORSNBCCCOMPLETEWITHREJECTS | 0 | 404 |
| IXCMGORSNBCEPENDINGNOREJECTS | 0 | 402 |
| IXCMGORSNBCEPENDINGWITHREJECTS | 0 | 403 |
| IXCMGORSNDUALFULL | 0 | 20 |
| IXCMGORSNDUALNOSTORAGE | 0 | 24 |
| IXCMGORSNDUALNOTSUITABLE | 0 | 28 |
| IXCMGORSNELEMENTBADALET | 0 | 212 |
| IXCMGORSNLOCKHELD | 0 | 12C |
| IXCMGORSNMSGBUFBALET | 0 | 208 |
| IXCMGORSNMSGBUFBADSTG | 0 | 10 |
| IXCMGORSNMSGBUFKEYMISMATCH | 0 | 20C |
| IXCMGORSNMSGCNTLBADALET | 0 | 14 |
| IXCMGORSNMSGCNTLBADSTG | 0 | 18 |
| IXCMGORSNMSGLENGTSUMPARTLEN | 0 | 224 |
| IXCMGORSNMSGLENNOTVALID | 0 | C |
| IXCMGORSNMSGPENDINGMUSTQUEUE | 0 | 1C |
| IXCMGORSNNEXTPTROFFBADSTG | | |

| Name | Hex Offset | Hex Value |
|---------------------------------|------------|-----------|
| IXCMGORSNNOBUFFER | 0 | 213 |
| IXCMGORSNNOBUFFERNOTQUEUED | 0 | 4 |
| IXCMGORSNNOMSGSPACE | 0 | 14 |
| IXCMGORSNNOPATH | 0 | C |
| IXCMGORSNNOPATHNOTQUEUED | 0 | 8 |
| IXCMGORSNNOTENABLED | 0 | 18 |
| IXCMGORSNPARTALET@BADALET | 0 | 11C |
| IXCMGORSNPARTALETOFF@BADALET | 0 | 234 |
| IXCMGORSNPARTALETOFFBADSTG | 0 | 236 |
| IXCMGORSNPARTALETTBL@BADALET | 0 | 233 |
| IXCMGORSNPARTALETTBLBADALET | 0 | 235 |
| IXCMGORSNPARTALETTBLBADSTG | 0 | 232 |
| IXCMGORSNPARTALETTBLNOTWORDBDY | 0 | 230 |
| IXCMGORSNPARTLENBADLEN | 0 | 231 |
| IXCMGORSNPARTLENOFFBADLEN | 0 | 225 |
| IXCMGORSNPARTLENOFFBADSTG | 0 | 227 |
| IXCMGORSNPARTLENTBLBADALET | 0 | 223 |
| IXCMGORSNPARTLENTBLBADLEN | 0 | 222 |
| IXCMGORSNPARTLENTBLBADSTG | 0 | 226 |
| IXCMGORSNPARTLENTBLNOTWORDBDY | 0 | 220 |
| IXCMGORSNPARTOFFBADSTG | 0 | 219 |
| IXCMGORSNPARTOFFKEYMISMATCH | 0 | 21D |
| IXCMGORSNPARTPTROFF@BADSTG | 0 | 218 |
| IXCMGORSNPARTPTROFF@KEYMISMATCH | 0 | 21C |
| IXCMGORSNPARTPTROFFBADSTG | 0 | 210 |
| IXCMGORSNPLISTBADALET | 0 | 100 |
| IXCMGORSNPLISTBADSTG | 0 | 10C |
| IXCMGORSNPLISTNOPARTINFOBADSTG | 0 | C0000 |
| IXCMGORSNPLISTRSDNOTVALID | 0 | 40 |
| IXCMGORSNPLISTVERSIONNOTVALID | 0 | 104 |
| IXCMGORSNRETMMSGOTOKENBADALET | 0 | 308 |
| IXCMGORSNRETMMSGOTOKENNOACCESS | 0 | 50000 |

IXCYCON Cross Reference

| Name | Hex Offset | Hex Value |
|---------------------------------|---------------|--------------|
| IXCMGORSNSENDERBECAMEINACTIVE | 0 | 344 |
| IXCMGORSNSENDERNONOTIFYEXIT | 0 | 300 |
| IXCMGORSNSENDERNOTVALID | 0 | 4 |
| IXCMGORSNSENDPENDING | 0 | 401 |
| IXCMGORSNSYSTEMNOSTORAGE | 0 | 10 |
| IXCMGORSNTARGETMAXMSGLEN61K | 0 | 340 |
| IXCMGORSNTARGETNOMSGEXIT | 0 | 1C |
| IXCMGORSNTARGETNOTVALID | 0 | 8 |
| IXCMGORSNTARGETSBADALET | 0 | 304 |
| IXCMGORSNTARGETSBADSTG | 0 | 314 |
| IXCMGORSNTOOMANYZEROLENPARTS | 0 | 215 |
| IXCQUIESRSNEXITSNOTPURGED | 0 | 4 |
| IXCQUIESRSNINAPPROPRIATEPRIMARY | 0 | 8 |
| IXCQUIESRSNINAPPROPRIATESYSTEM | 0 | 10 |
| IXCQUIESRSNNOTACTIVE | 0 | 4 |
| IXCQUIESRSNNOTENABLED | 0 | 11C |
| IXCQUIESRSNNOTLASTING | 0 | C |
| IXCQUIESRSNNOTTASKMODE | 0 | 118 |
| IXCQUIESRSNPLISTBADALET | 0 | 100 |
| IXCQUIESRSNPLISTBADFUNCTION | 0 | 108 |
| IXCQUIESRSNPLISTBADSTG | 0 | 10C |
| IXCQUIESRSNPLISTRSDNOTVALID | 0 | 40 |
| IXCQUIESRSNPLISTVERSIONNOTVALID | 0 | 104 |
| IXCQUIESRSNPRIMARYNOTHOME | 0 | 120 |
| IXCQUIESRSNTASKABENDED | 0 | 18 |
| IXCQUIESRSNUSLENBADVALUE | 0 | 114 |
| IXCQUIESRSNUSTATEBADSTG | 0 | 110 |
| IXCRETCODECOMPERROR | 0 | 10 |
| IXCRETCODEENVEERROR | 0 | C |
| IXCRETCODEOK | 0 | 0 |
| IXCRETCODEPARMERROR | 0 | 8 |
| IXCRETCODEWARNING | 0 | 4 |
| IXCSETUSRSNCOMPUSNOTACCESSIBLE | 0 | 124 |

| Name | Hex Offset | Hex Value |
|---------------------------------|---------------|--------------|
| IXCSETUSRSNINAPPROPRIATEPRIMARY | 0 | 8 |
| IXCSETUSRSNNEWUSNOTACCESSIBLE | 0 | 110 |
| IXCSETUSRSNNOCHANGEOLDEQNEW | 0 | 4 |
| IXCSETUSRSNNOCHANGEOLDNECOMPUS | 0 | 8 |
| IXCSETUSRSNNOTACTIVE | 0 | 4 |
| IXCSETUSRSNNOTENABLED | 0 | 11C |
| IXCSETUSRSNNOTTASKMODE | 0 | 118 |
| IXCSETUSRSNOLDUSALETNOTPRIMARY | 0 | 14 |
| IXCSETUSRSNOLDUSBADALET | 0 | 28 |
| IXCSETUSRSNOLDUSBADSTGNOTCOMMON | 0 | 18 |
| IXCSETUSRSNOLDUSINCOMPLETE | 0 | 3C |
| IXCSETUSRSNPLISTBADALET | 0 | 100 |
| IXCSETUSRSNPLISTBADFUNCTION | 0 | 108 |
| IXCSETUSRSNPLISTBADSTG | 0 | 10C |
| IXCSETUSRSNPLISTRSDNOTVALID | 0 | 40 |
| IXCSETUSRSNPLISTVERSIONNOTVALID | 0 | 104 |
| IXCSETUSRSNTARGETDIFFERENTGROUP | 0 | C |
| IXCSETUSRSNTARGETNOTVALID | 0 | 10 |
| IXCSETUSRSNTASKABENDED | 0 | 18 |
| IXCSETUSRSNUSLENBADVALUE | 0 | 114 |
| IXCSYSCLRSNFAILEDSYSNOTVALID | 0 | 10 |
| IXCSYSCLRSNINAPPROPRIATEPRIMARY | 0 | 8 |
| IXCSYSCLRSNLOCKHELD | 0 | 12C |
| IXCSYSCLRSNNOTACTIVE | 0 | 4 |
| IXCSYSCLRSNNOTENABLED | 0 | 11C |
| IXCSYSCLRSNPLISTBADALET | 0 | 100 |
| IXCSYSCLRSNPLISTBADFUNCTION | 0 | 108 |
| IXCSYSCLRSNPLISTBADSTG | 0 | 10C |
| IXCSYSCLRSNPLISTRSDNOTVALID | 0 | 40 |
| IXCSYSCLRSNPLISTVERSIONNOTVALID | 0 | 104 |
| IXCSYSCLRSNSYSCLEANUPMEMNO | 0 | C |
| IXCTERMRSNINAPPROPRIATEPRIMARY | 0 | 8 |
| IXCTERMRSNMEMTOKENNOTVALID | | |

| Name | Hex Offset | Hex Value |
|--------------------------------|---------------|--------------|
| | 0 | 1C |
| IXTERMRSNNOTACTIVE | 0 | 4 |
| IXTERMRSNNOTENABLED | 0 | 11C |
| IXTERMRSNNOTTASKMODE | 0 | 118 |
| IXTERMRSNPLISTBADALET | 0 | 100 |
| IXTERMRSNPLISTBADFUNCTION | 0 | 108 |
| IXTERMRSNPLISTBADSTG | 0 | 10C |
| IXTERMRSNPLISTRSDNOTVALID | 0 | 40 |
| IXTERMRSNPLISTVERSIONNOTVALID | 0 | 104 |
| IXTERMRSNTARGETDIFFERENTGROUP | 0 | 14 |
| IXTERMRSNTARGETNOTACTIVE | 0 | C |
| IXTERMRSNTARGETNOTDEFINED | 0 | 10 |
| IXTERMRSNTARGETNOTMEMASSOCTASK | 0 | 120 |
| IXTERMRSNTARGETNOTVALID | 0 | 18 |

IXCYENF Programming Interface information

Programming Interface information

IXCYENF

End of Programming Interface information

IXCYENF Heading Information

Common Name: Event Notification Facility signal parmlist
Macro ID: IXCYENF
DSECT Name: IXCYENF
Owning Component: Cross System Coupling Facility (SCXCF)
Eye-Catcher ID: ENF
 Offset: 0
 Length: 4 bytes
Storage Attributes: Subpool: DREF SQA
 Key: 0
Size: IXCYENF -- X'0100' bytes
Created by: IXCL2MSG, IXCS2TSK or IXCS4TSK
Pointed to by: On entry to the ENF listen exit, register 1 points to a word which contains the address of the IXCYENF data area
Serialization: Serialized by the ENF component
Function: Mapping of parameter list passed to ENF listening routine to communicate XES event information for which the connection-related Event Exit is not usable or not appropriate

IXCYENF Map

| Offsets | | | | | |
|---------|------|------------|-----|---------------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | IXCYENF | XES Event Notification Parameter List |
| 0 | (0) | CHARACTER | 4 | IXCYENFACRONYM | Eyecatcher C'ENF ' |
| 4 | (4) | CHARACTER | 5 | IXCYENFCOMPONENT | Component acronym |
| 9 | (9) | CHARACTER | 3 | | Unused |
| 12 | (C) | SIGNED | 4 | IXCYENFFUNCTION | Function code, listed below |
| 16 | (10) | CHARACTER | 240 | IXCYENFFUNCTIONDATA | Function data defined differently for different functions. See mappings below. |
| 16 | (10) | X'100' | 0 | IXCYENF_LEN | **-IXCYENF" |
| 16 | (10) | BITSTRING | 1 | IXCYENFFUNCTIONSTRAVAILDATA | |
| 16 | (10) | CHARACTER | 16 | IXCYENFSTRNAME | Structure name, if resources pertaining to a specific structure became available, or binary zeroes if n/a. Used for IxcyenfFunctionStrAvail function |
| 16 | (10) | X'10' | 0 | IXCYENFFUNCTIONSTRAVAILDATA_LEN | **-IXCYENFFUNCTIONSTRAVAILDATA" |
| 16 | (10) | BITSTRING | 1 | IXCYENFSYSTEMSYSPLEXDATA | |
| 16 | (10) | CHARACTER | 8 | IXCYENFSYSNAME | System name of the system that has either entered the sysplex or has been removed from the sysplex. Used for the IxcyenfFunctionSysJoinedSysplex and IxcyenfFunctionSysLeftSysplex functions |
| 24 | (18) | SIGNED | 4 | IXCYENFSYSTEMID | |
| | | | (0) | | System Id |
| 24 | (18) | SIGNED | 1 | IXCYENFSLOTNUMBER | System slot number |
| 25 | (19) | SIGNED | 3 | | Reserved |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|----------------|------|------------|-----|---------------------------------|--|
| Dec | Hex | | | | |
| Comment | | | | | |
| Function codes | | | | | |
| End of Comment | | | | | |
| 25 | (19) | X'1' | 0 | IXCYENFFUNCTIONRESAVAIL | "1" New coupling facility resources have become available on this system. IXLCONN requests which previously failed may now succeed because of this new coupling facility resource. |
| 25 | (19) | X'2' | 0 | IXCYENFFUNCTIONSTRAVAIL | "2" A specific structure has become available for use. IXLCONN requests which previously failed may now succeed because of this new coupling facility resource. |
| 25 | (19) | X'3' | 0 | IXCYENFFUNCTIONSYSJOINEDSYSPLEX | "3" A system has joined the sysplex. Sysname is in the IxcyenfSysname field. |
| 25 | (19) | X'4' | 0 | IXCYENFFUNCTIONSYSLEFTSYSPLEX | "4" A system has been partitioned from the sysplex. Sysname is in the IxcyenfSysname field. |
| Comment | | | | | |
| Eyecatcher | | | | | |
| End of Comment | | | | | |
| 25 | (19) | X'D5C640' | 0 | IXCYENFEYECATCHER | "C'ENF '" Eyecatcher |
| 25 | (19) | X'C' | 0 | IXCYENFSYSTEMSYSPLEXDATA_LEN | "*-IXCYENFSYSTEMSYSPLEXDATA" |

IXCYENF Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|---------------------------------|------------|-----------|------------------------------|------------|-----------|
| IXCYENF | 0 | | | 10 | |
| IXCYENF_LEN | 10 | 100 | IXCYENFSYSTEMID | 18 | |
| IXCYENFACRONYM | 0 | | IXCYENFSYSTEMSYSPLEXDATA | 10 | |
| IXCYENFCOMPONENT | 4 | | IXCYENFSYSTEMSYSPLEXDATA_LEN | 19 | C |
| IXCYENFEYECATCHER | 19 | D5C640 | | | |
| IXCYENFFUNCTION | C | | | | |
| IXCYENFFUNCTIONDATA | 10 | | | | |
| IXCYENFFUNCTIONRESAVAIL | 19 | 1 | | | |
| IXCYENFFUNCTIONSTRAVAIL | 19 | 2 | | | |
| IXCYENFFUNCTIONSTRAVAILDATA | 10 | | | | |
| IXCYENFFUNCTIONSTRAVAILDATA_LEN | 10 | 10 | | | |
| IXCYENFFUNCTIONSYSJOINEDSYSPLEX | 19 | 3 | | | |
| IXCYENFFUNCTIONSYSLEFTSYSPLEX | 19 | 4 | | | |
| IXCYENFSLOTNUMBER | 18 | | | | |
| IXCYENFSTRNAME | 10 | | | | |
| IXCYENFSYSNAME | | | | | |

IXCYERE Programming Interface information

Programming Interface information

IXCYERE

End of Programming Interface information

IXCYERE Heading Information

Common Name: Automatic Restart Manager (ARM) Element Restart Installation Exit Parameter List
Macro ID: IXCYERE
DSECT Name: ERE
Owning Component: Cross System Coupling Facility (SCXCF)
 SUBCOMPONENT: Automatic Restart Manager
Eye-Catcher ID: ERE
 Offset: 0
 Length: 4 bytes
Storage Attributes: Subpool: 205
 Key: 4
Size: 272 bytes
Created by: IXCA3EEP
Pointed to by: Register 1 on entry to an Element-Restart-Exit routine
Serialization: None
Function: Mapping of parameter list that the Automatic Restart Manager passes to an Element Restart Exit routine

IXCYERE Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------------------|-----|-----------------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | ERE | |
| 0 | (0) | CHARACTER | 4 | EREACRONYM | Eyecatcher C'ERE ' |
| 4 | (4) | BITSTRING | 2 | EREEVENTCODE | Indicates whether restart is for element termination or system termination (input) |
| 6 | (6) | BITSTRING | 1 | ERERESTARTTYPE | Restart type (input/output) This field can be modified by the element restart exit to change the restart type. EreRestartNone -> On output, Element restart exit cancelled restart of this element. |
| 7 | (7) | CHARACTER 1... | 1 | EREFLAGS EREPERSJCLAVAIL | Flags (input) "X'80" 1=persistent JCL available for use, 0=persistent JCL not available |
| | | .1.. | | EREPOLICYSTARTTEXT | "X'40" On -> Command to restart the element was supplied by ARM policy. The command text is supplied in EreStartTxt. Off -> Command to restart the element is either with persistent start text or was supplied by the application on the register request. If the start text was supplied by the application on the register request, EreStartTxt contains the restart text. This field is valid only when EreRestartType = EreRestartStartTxt and is an input field. |
| | | ..1. | | EREELEMBINDCURSYS | "X'20" 1=Element registered with ELEMBIND=CURSYS option. Element has a minimum bind to the system on which it registered. 0=Element did not register with ELEMBIND=CURSYS option. |
| | | ...1 | | EREMUSTSUPPLYRESTARTTEXT | "X'10" 1=No persistent restart text was available and no restart text was provided by the application or the policy. The exit must either fill in EreStartTxt or provide override JCL and set EreRestartType to EreRestartJCLOver. If the exit does not supply restart text, the restart fails and the element is deregistered. |
| 8 | (8) | CHARACTER | 8 | EREJOBNAME | Job name (input) |
| 16 | (10) | CHARACTER | 16 | EREELEMENTNAME | ARM element name (input) |

| Offsets | | | | | |
|---|------------|------------|-----|----------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 32 | (20) | CHARACTER | 8 | EREELEMENTTYPE | ARM element-type (input) |
| 40 | (28) | CHARACTER | 8 | EREHOMESYSTEM | System name of the system on which the element was first registered (input) |
| 48 | (30) | CHARACTER | 8 | EREFROMSYSTEM | System name of the system on which the element was previously running. (For restarts after an element termination, this is the same as EREToSystem.) (input) |
| 56 | (38) | CHARACTER | 8 | ERETOSYSTEM | System name of the system on which the element is to be restarted (input) |
| 64 | (40) | CHARACTER | 52 | EREJCLDATASET (0) | Contains the name of the dataset with JCL used to restart the element if EreRestartType = EreRestartJCLOver (input/output). Name of data set containing override JCL |
| 64 | (40) | CHARACTER | 44 | EREJCLDSNAME | Name of member containing override JCL if data set is a PDS |
| 108 | (6C) | CHARACTER | 8 | EREJCLMEMBERNAME | Start text, if restart is to be via a command (input/output) May be zero for system affiliated elements. |
| 116 | (74) | CHARACTER | 126 | ERESTARTTXT | Clone id of system on which element originally registered (input) |
| 242 | (F2) | CHARACTER | 2 | EREHOMECLONE | RESERVED |
| 244 | (F4) | CHARACTER | 28 | | |
| Comment | | | | | |
| Constants designating cause of restart (for EREEVENTCODE) | | | | | |
| End of Comment | | | | | |
| |1 | | | EREELEMENTTERM | "X'0001" Restart caused by element termination |
| |1. | | | ERESYSTEMTERM | "X'0002" Restart caused by a system termination |
| Comment | | | | | |
| Constants designating how/whether restart should be done (for ERERESTARTTYPE) | | | | | |
| End of Comment | | | | | |
| |1 | | | ERERESTARTNONE | "X'01" No restart to be performed |
| |1. | | | ERERESTARTSTARTTXT | "X'02" Element restart is via a command specified in EreStartTxt. See ErePolicyStartText to determine the source of the restart command. If EreMustSupplyRestartText is on, there is no restart text in EreStartTxt. |
| |11 | | | ERERESTARTPERJCL | "X'03" Element restart is via persistent JCL. If set on output, ErePersJclAvail must be on. |
| |1.. | | | ERERESTARTJCLOVER | "X'04" Element restart is via JCL provided in the dataset whose name is in EreJclDsName. Element restart exits can reject use of this JCL and use the persistent JCL if ErePersJclAvail is set. |
| Comment | | | | | |
| Eyecatcher - for EREACRONYM field | | | | | |
| End of Comment | | | | | |
| 272 | (110) | CHARACTER | 4 | EREEYECATCHER | Eyecatcher |

IXCYERE Cross Reference

IXCYERE Cross Reference

| Name | Hex Offset | Hex Value |
|--------------------------|---------------|--------------|
| ERE | 0 | |
| EREACRONYM | 0 | |
| EREELEMBINDCURSYS | 7 | 20 |
| EREELEMENTNAME | 10 | |
| EREELEMENTTYPE | 20 | |
| EREELEMTerm | F4 | 1 |
| EREEVENTCODE | 4 | |
| EREEYECATCHER | 110 | C5D9C540 |
| EREFLAGS | 7 | |
| EREFROMSYSTEM | 30 | |
| EREHOMECLONE | F2 | |
| EREHOMESYSTEM | 28 | |
| EREJCLDATASET | 40 | |
| EREJCLDSNAME | 40 | |
| EREJCLMEMBERNAME | 6C | |
| EREJOBNAME | 8 | |
| EREMUSTSUPPLYRESTARTTEXT | 7 | 10 |
| EREPERSJCLAVAIL | 7 | 80 |
| EREPOLICYSTARTTEXT | 7 | 40 |
| ERERESTARTJCLOVER | F4 | 4 |
| ERERESTARTNONE | F4 | 1 |
| ERERESTARTPERJCL | F4 | 3 |
| ERERESTARTSTARTTXT | F4 | 2 |
| ERERESTARTTYPE | 6 | |
| ERESTARTTXT | 74 | |
| ERESYSTEMTERM | F4 | 2 |
| ERETOSYSTEM | 38 | |

IXCYEVE Programming Interface information

Programming Interface information

IXCYEVE

End of Programming Interface information

IXCYEVE Heading Information

Common Name: Automatic Restart Manager Event-Exit Parameter List
Macro ID: IXCYEVE
DSECT Name: EVE
Owning Component: Cross System Coupling Facility (SCXCF)
 SUBCOMPONENT: Automatic Restart Manager (ARM)
Eye-Catcher ID: EVE
 Offset: 0
 Length: 4 bytes
Storage Attributes: Subpool: 203/private
 Key: 0
Size: 76 bytes
Created by: IXCA3EEP
Pointed to by: Register 1 on entry to the Event-Exit routine
Serialization: None
Function: Mapping of parameter list passed to an Event-Exit routine that was specified during the registration of an element. The Automatic Restart Manager invokes this exit when any of several events occur for the element. The Automatic Restart Manager's input to the exit includes an "event" code and "reason" code to indicate which event occurred.

IXCYEVE Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-----------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | EVE | |
| 0 | (0) | CHARACTER | 4 | EVEACRONYM | Eyecatcher C'EVE ' |
| 4 | (4) | BITSTRING | 4 | EVEEVENTCODE | Code indicating the event that caused the invocation of the event-exit routine (input) |
| 8 | (8) | BITSTRING | 4 | EVEEVENTREASON | Code indicating the reason for the event indicated in EVEEventCode EVEEventCode (input) |
| 12 | (C) | ADDRESS | 4 | EVEADDRWORKAREA | Address of area designated in the EVENTEXITPL parameter of the IXCARM-REGISTER macro for this element (or 0) (input) |
| 16 | (10) | BITSTRING | 4 | EVELENWORKAREA | Length of area designated in the EVENTEXITPL parameter of the IXCARM-REGISTER macro. This is the value that had been specified in the EXITPLEN parm of the IXCARM-REGISTER macro (input) |
| 20 | (14) | CHARACTER | 8 | EVEJOBNAME | Job name that this element had when last registered with ARM |
| 28 | (1C) | CHARACTER | 16 | EVEELEMENTNAME | ARM element name (input) |
| 44 | (2C) | CHARACTER | 8 | EVEELEMENTTYPE | ARM element type name (input) |
| 52 | (34) | CHARACTER | 8 | EVEFROMSYSTEM | System name of the system on which the element was previously running. (For restarts after an element termination, this is the same as EVEToSystem.) (input) |
| 60 | (3C) | CHARACTER | 8 | EVETOSYSTEM | System name of the system on which the element is about to be restarted. (This is also the system on which the event exit is running. (input) |
| 68 | (44) | CHARACTER | 8 | | Reserved |

| Offsets | | Type/Value | Len | Name (Dim) | Description | | | | |
|--|------|------------|-----|---------------|--|--|--|--|--|
| Dec | Hex | | | | | | | | |
| Comment | | | | | | | | | |
| Eyecatcher for EVEAcronym field | | | | | | | | | |
| End of Comment | | | | | | | | | |
| 76 | (4C) | CHARACTER | 4 | EVEEYECATCHER | Eyecatcher | | | | |
| Comment | | | | | | | | | |
| Event Codes for EVEEventCode field | | | | | | | | | |
| End of Comment | | | | | | | | | |
| | |1 | | EVERESTART | "X'00000001" Event Code for call when element is about to be restarted | | | | |
| Comment | | | | | | | | | |
| Reason Codes (for EVEEventReason) for Event Code 1 (restart) | | | | | | | | | |
| End of Comment | | | | | | | | | |
| | |1 | | EVEELEMTERM | "X'00000001" Element has terminated and is being restarted on same system | | | | |
| | |1. | | EVESYSTEM | "X'00000002" System on which element was running has terminated or left the sysplex and element is being restarted on another system | | | | |

IXCYEVE Cross Reference

| Name | Hex Offset | Hex Value |
|-----------------|------------|-----------|
| EVE | 0 | |
| EVEACRONYM | 0 | |
| EVEADDRWORKAREA | | |
| | C | |
| EVEELEMENTNAME | | |
| | 1C | |
| EVEELEMENTTYPE | | |
| | 2C | |
| EVEELEMTERM | 4C | 1 |
| EVEEVENTCODE | 4 | |
| EVEEVENTREASON | | |
| | 8 | |
| EVEEYECATCHER | | |
| | 4C | C5E5C540 |
| EVEFROMSYSTEM | | |
| | 34 | |
| EVEJOBNAME | 14 | |
| EVELENWORKAREA | | |
| | 10 | |
| EVERESTART | 4C | 1 |
| EVESYSTEM | 4C | 2 |
| EVETOSYSTEM | 3C | |

IXCYGEPL Programming Interface information

Programming Interface information

IXCYGEPL

End of Programming Interface information

IXCYGEPL Heading Information

Common Name: Group Exit Parameter List
Macro ID: IXCYGEPL
DSECT Name: GEPL
Owning Component: Cross System Coupling Facility (SCXCF)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: 245
 Key: 0
 Residency: Above the 16 megabyte line.
Size: 220 bytes + 32 bytes for user state field
Created by: IXCNTSK
Pointed to by: R1 on entry to the group exit
Serialization: None required
Function: Maps the parameters passed to the group exit

IXCYGEPL Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|---------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | GEPL | Group exit parameter list |
| 0 | (0) | CHARACTER | 88 | GEPLGLBL | Global GN control block parameters |
| 0 | (0) | BITSTRING | 8 | GEPLMDAT | Member data value provided via the IXCJOIN which established the group exit |
| 8 | (8) | CHARACTER | 4 | GEPLFLGS | Note: Member events are presented in a logic order (ie. a user state field change may be seen before a member state change such as a JOIN). 1 member status change (i.e. IXCJOIN etc.) 2 user state field change, Note that a subsystem failure detection interval modification could also have occurred. 4 Reserved 6 Reserved 7 member status update missing reported by subsystem's status exit 8 member status update missing detected by subsystem monitor DIE 9 member status update no longer missing 10 Reserved 11 system reported active 12 system update missing 13 system update resumed 14 system reported going 15 system reported gone 16 system detected missing 17 system detected gone 18 system failure detection interval updated 19 Reserved 20 Reserved 21 subsystem failure detection interval updated. Note that a user state modification could also have occurred. 22 system in partitioning (THIS SYSTEM). 23 monitoring removed for this member Member state before action in type field X'00' not defined, X'02' created, X'03' active, X'04' quiesced, X'05' failed Member state after action in type field X'00' not defined, X'02' created, X'03' active, X'04' quiesced, X'05' failed |
| 8 | (8) | SIGNED | 1 | GEPLTYPE | |
| 9 | (9) | SIGNED | 1 | GEPLOLDS | |
| 10 | (A) | SIGNED | 1 | GEPLNEWS | |
| 11 | (B) | BITSTRING | 1 | GEPLFLG2 | |
| | | 1... | | GEPLMEME | |
| | | .1.. | | GEPLMONR | |
| | | .1. | | GEPLMISR | |
| | | ...1 | | GEPLMISD | |
| | | 1... | | GEPLSECC | |
| | |1.. | | GEPLCLEANUPINTVALID | |
| 12 | (C) | CHARACTER | 8 | GEPLGNAM | Group Name |
| 20 | (14) | CHARACTER | 16 | GEPLMNAM | Member Name |

| Offsets | | | | | |
|---|------|------------|-----|----------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 36 | (24) | BITSTRING | 8 | GEPLMTOK | Member token |
| Comment | | | | | |
| <p>Note: The Member Token, Group name, and Member fields are set to 0 for events which are not member-related (i.e. GESYSACT, GESYSFDI, etc.)</p> | | | | | |
| End of Comment | | | | | |
| 44 | (2C) | CHARACTER | 8 | GEPLSYS | System name where member last/currently active |
| 52 | (34) | BITSTRING | 8 | GEPLETIM | Time event occurred in STCK format |
| 60 | (3C) | SIGNED | 4 | GEPLINTV | Monitoring interval (system/subsystem) in hundredths of seconds. For system events contains the system FDI, for member events contains the subsystem FDI |
| 64 | (40) | BITSTRING | 4 | GEPLUDAT | User data field. -Contains the value passed back by the status exit in R0 the last time the exit reported status update missing or resumed |
| 68 | (44) | SIGNED | 4 | GEPLUSLN | Actual length of user state field |
| 72 | (48) | SIGNED | 4 | GEPLSID | System token associated with system on which member was last active |
| 72 | (48) | SIGNED | 1 | GEPLSNUM | System slot number |
| 73 | (49) | SIGNED | 3 | | Reserved |
| 76 | (4C) | SIGNED | 4 | GEPLCLEANUPINT | Contains the current system (as defined by GEPLSID) cleanup interval. The interval is specified in seconds and can change dynamically. The GEPLCLEANUPINTVALID bit indicates whether the value could be provided or not. |
| 80 | (50) | CHARACTER | 8 | | Reserved |
| 88 | (58) | SIGNED | 4 | GEPLUSOF | Offset from GEPL of 32-byte user state field. NOTE: It is possible that XCF can not determine a member's user state. This occurs when a member leaves on a system that has been partitioned out of the sysplex and the signal containing the event is lost due to the system's failure. In this case, XCF sets the user state field to 32-bytes of X'FF'. It should also be noted that a user can set a user state to this value. As a result, it is recommended that this value not be used by the user as a user state. |
| 92 | (5C) | CHARACTER | 128 | GEPLHSTY | History Data |
| 92 | (5C) | CHARACTER | 16 | GEPLHIST | Eight sets of fields containing the event time and expected duration of the last eight events which affected the member in GEPLMNAM, in LIFO order |
| 92 | (5C) | BITSTRING | 8 | GEPLHTIM | Time event occurred in STCK format |
| 100 | (64) | SIGNED | 4 | GEPLHTTM | Time event is expected to last, in units of hundredths of seconds, subsystem monitoring only, optional |
| 104 | (68) | BITSTRING | 4 | GEPLHFLG | Flags corresponding to GEPLFLGS, for prior events |
| 220 | (DC) | X'DC' | 0 | GEPLLEN | "*-GEPL" |

| Offsets | | | | | |
|---------|------|------------|-----|----------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | GEPL1 | CAUTION: GEPL1 may not exist. Check GEPLUSOF before using the GEPL1. |
| 0 | (0) | CHARACTER | 220 | | Mapped by GEPL |
| 220 | (DC) | SIGNED | 1 | GEPL1_VERSION | Version number of GEPL |
| 221 | (DD) | CHARACTER | 7 | | Reserved |
| 228 | (E4) | BITSTRING | 8 | GEPL1_TARGETMEMTOKEN | Member token of the member whose group exit is being driven. |
| 228 | (E4) | X'DC' | 0 | GEPL_KONLYBASE | "220" Compare this value to GEPLUSOF to determine whether the GEPL1 is available for use by the group exit. |
| 228 | (E4) | X'1' | 0 | GEPL_KVERSION1 | "1" Version 1 of GEPL. |

IXCYGEPL Cross Reference

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|--|------|------------|-----|------------|--|
| Dec | Hex | | | | |
| | | | | | Comment |
| Declaration of constants for use in group exits - (GEPLTYPE) | | | | | |
| | | | | | End of Comment |
| 228 | (E4) | X'1' | 0 | GEMSTATE | "1" Member state event |
| 228 | (E4) | X'2' | 0 | GEUSTATE | "2" User state event 4 - Reserved 6 - Reserved |
| 228 | (E4) | X'7' | 0 | GEMSUMSE | "7" Member status update missing reported by status exit |
| 228 | (E4) | X'8' | 0 | GEMSUMDI | "8" Member status update missing detected by subsysmon DIE |
| 228 | (E4) | X'9' | 0 | GEMNOSUM | "9" Member status update not missing 10 - reserved |
| 228 | (E4) | X'B' | 0 | GESYSACT | "11" SYSTEM reported active |
| 228 | (E4) | X'C' | 0 | GESYSSUM | "12" SYSTEM update missing |
| 228 | (E4) | X'D' | 0 | GESYSSUR | "13" SYSTEM update resume |
| 228 | (E4) | X'E' | 0 | GESYSGO | "14" SYSTEM reported going |
| 228 | (E4) | X'F' | 0 | GESYSGON | "15" SYSTEM reported gone |
| 228 | (E4) | X'10' | 0 | GESYSDM | "16" SYSTEM detected missing |
| 228 | (E4) | X'11' | 0 | GESYSDG | "17" SYSTEM detected gone |
| 228 | (E4) | X'12' | 0 | GESYSFDI | "18" SYSTEM failure detection interval updated 19 - Reserved |
| | | | | | 20 - Reserved |
| 228 | (E4) | X'15' | 0 | GESUBFDI | "21" Subsystem failure detection interval updated |
| 228 | (E4) | X'16' | 0 | GESYSPRT | "22" System in partitioning |
| 228 | (E4) | X'17' | 0 | GEMONREM | "23" Monitoring removed |
| | | | | | Comment |

Declaration of constants for use in group exits
GEPLOLDS & GEPLNEWS

| | | | | | |
|----------------|------|-------|---|-----------|------------------------|
| End of Comment | | | | | |
| 228 | (E4) | X'0' | 0 | GENOTDEF | "0" Member not defined |
| 228 | (E4) | X'2' | 0 | GECREATE | "2" Member created |
| 228 | (E4) | X'3' | 0 | GEACTIVE | "3" Member active |
| 228 | (E4) | X'4' | 0 | GEQUIESC | "4" Member quiesced |
| 228 | (E4) | X'5' | 0 | GEFAILED | "5" Member failed |
| 228 | (E4) | X'EC' | 0 | GEPL1_LEN | **GEPL1" |

IXCYGEPL Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|---------------------|------------|-----------|----------|------------|-----------|
| GEACTIVE | E4 | 3 | GEPLHFLG | 68 | |
| GECREATE | E4 | 2 | GEPLHIST | 5C | |
| GEFAILED | E4 | 5 | GEPLHSTY | 5C | |
| GEMNOSUM | E4 | 9 | GEPLHTIM | 5C | |
| GEMONREM | E4 | 17 | GEPLHTTM | 64 | |
| GEMSTATE | E4 | 1 | GEPLINTV | 3C | |
| GEMSUMDI | E4 | 8 | GEPLLEN | DC | DC |
| GEMSUMSE | E4 | 7 | GEPLMDAT | 0 | |
| GENOTDEF | E4 | 0 | GEPLMEME | B | 80 |
| GEPL | 0 | | GEPLMISD | B | 10 |
| GEPL_KONLYBASE | | | GEPLMISR | B | 20 |
| | E4 | DC | GEPLMNAM | 14 | |
| GEPL_KVERSION1 | | | GEPLMONR | B | 40 |
| | E4 | 1 | GEPLMTOK | 24 | |
| GEPLCLEANUPINT | | | GEPLNEWS | A | |
| | 4C | | GEPLOLDS | 9 | |
| GEPLCLEANUPINTVALID | | | GEPLSECC | B | 8 |
| | B | 4 | GEPLSID | 48 | |
| GEPLETIM | 34 | | GEPLSNUM | 48 | |
| GEPLFLGS | 8 | | GEPLSYS | 2C | |
| GEPLFLG2 | B | | GEPLTYPE | 8 | |
| GEPLGLBL | 0 | | GEPLUDAT | 40 | |
| GEPLGNAM | C | | GEPLUSLN | 44 | |

| Name | Hex Offset | Hex Value |
|----------------------|---------------|--------------|
| GEPLUSOF | 58 | |
| GEPL1 | 0 | |
| GEPL1_LEN | E4 | EC |
| GEPL1_TARGETMEMTOKEN | E4 | |
| GEPL1_VERSION | DC | |
| GEQUIESC | E4 | 4 |
| GESUBFDI | E4 | 15 |
| GESYSACT | E4 | B |
| GESYSDG | E4 | 11 |
| GESYSDM | E4 | 10 |
| GESYSFDI | E4 | 12 |
| GESYSGO | E4 | E |
| GESYSGON | E4 | F |
| GESYSPRT | E4 | 16 |
| GESYSSUM | E4 | C |
| GESYSSUR | E4 | D |
| GEUSTATE | E4 | 2 |

IXCYMEPL Programming Interface information

Programming Interface information

IXCYMEPL

End of Programming Interface information

IXCYMEPL Heading Information

Common Name: Message Exit Parameter List
Macro ID: IXCYMEPL
DSECT Name: MEPL MEPLEX
Owning Component: Cross System Coupling Facility (SCXCF)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: 245, 248
 Key: 0
 Residency: Any
Size: MEPL -- X'0074' bytes
 MEPLEX -- X'0014' bytes
Created by: IXCS1DCM - getmain
 IXCS1STB - initialization
 IXCT1BER - initialization
 IXCT1MPS - initialization
Pointed to by: R1 on entry to a message exit routine
Serialization: Serialized by virtue of the fact that there is but one message exit routine presented with a particular MEPL at any one time.
Function: Maps the parameters passed to a message exit routine

IXCYMEPL Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | MEPL | Message exit parameter list |
| 0 | (0) | BITSTRING | 4 | MEPLMTOK | Maintained for compatibility with users of version 0 parameter list. Use MeplMsgiToken for version 1 parameter lists. For initial delivery of a message (MeplSolicited='0'B), contains a token that can be supplied via the MSGTOKEN keyword to the message-in service (IXCMSGI). Not defined for solicited message delivery (MeplSolicited='1'B) and will not be accepted by message-in service as a message token. |
| 4 | (4) | BITSTRING | 8 | MEPLMDAT | Data associated with the message by the target member. Contains a copy of the member data specified by the MEMDATA keyword when the Join Service (IXCJOIN) was invoked by the target member. |
| 12 | (C) | SIGNED | 4 | MEPLMLEN | Total number of bytes of message data available (remaining) for delivery via the message-in service. The length is accurate only on entry to the exit routine. It is NOT updated while the exit routine is running to reflect any partial deliveries performed by the exit. |
| 16 | (10) | BITSTRING | 8 | MEPLSRCE | Member token of originator of the signal |
| 24 | (18) | CHARACTER | 32 | MEPLCNTL | MSGCNTL value from originator of the signal |
| | | | | | Comment |

 Fields available with version 1 mapping
 Note: The MeplVersion field is not mapped in the version 0 MEPL, but users of the version 1 mapping can still test this field to determine the contents of the parameter list, regardless of the MVS release on which their code is running.
 The version 1 parameter list is passed to all message exit routines as of MVS JBB6602.

| | | | | | |
|----|------|--------|---|-------------|------------------------|
| | | | | | End of Comment |
| 56 | (38) | SIGNED | 1 | MEPLVERSION | Version number of MEPL |

| Offsets | | | | | |
|---------|------|------------|-----|--------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 57 | (39) | BITSTRING | 3 | MEPLFLAGS (0) | Applies to version 1 Flags describing characteristics of the message or its delivery. |
| | | 1... | | MEPLSOLICITED | "X'80" Applies to version 1 Indicates whether message exit was solicited by the user: '0'B when message delivery is initiated by XCF, '1'B for delivery solicited by the user (by invoking the message-control CALLEXIT service to call a message exit routine. |
| | | .1.. | | MEPLNEEDSRESPONSE | "X'40" Applies to version 1 Indicates whether the sender requested that XCF manage the gathering of a response to this message: '1'B if XCF is managing the response, '0'B if not. If so, send a response using the IXCMMSGO service, specifying ORIGINATOR for the SENDTO keyword and supplying a RESPONSEID equal to the value provided in the MepIResponseID field below. Note that this flag reflects a specification made by the sender when the message was originally sent, and cannot be used to determine whether the desired response was sent or received. |
| | | ..1. | | MEPLISARESPONSE | "X'20" Applies to version 1 Indicates whether this message is a response that is being managed by XCF: '1'B if it is an XCF managed response, '0'B if not. This response message will be presented to the message exit driven by the Message Control (IXCMMSGC) CallExit service for a saved response message. Note that MepINeedsResponse and MepIIsaResponse are mutually exclusive. |
| | | ...1 | | MEPLDELIVERED | "X'10" '1'B if some portion of the message was delivered by message-in service, '0'B if none of the message was delivered. Applies to version 1 |
| | | 1... | | MEPLSAVED | "X'08" '1'B if the message was saved with the message control SAVEMSG service. Applies to version 1 |
| | |1.. | | MEPLORDEREDMSG | "X'04" '1'B if the sender requested ordered message delivery. Applies to version 1 |
| | |1 | | MEPLEXTENSIONDATA | "X'01" '1'B if there is additional data to be presented to the message exit. The data presented will be mapped by MepIEx. Applies to version 1 |
| 57 | (39) | BITSTRING | 2 | MEPLTARGETMEMTOKEN | Reserved. |
| 60 | (3C) | BITSTRING | 8 | | Applies to version 1 Member token of the member to which this message was sent. |
| 68 | (44) | CHARACTER | 16 | MEPLMSGITOKEN | Applies to version 1 Token to identify the message being delivered. Specify this value for the IXCMMSGI TOKEN() keyword when invoking the message-in service (IXCMMSGI) to receive the text of the message. Specify this value for the TOKEN keyword when invoking the message-control SAVE service (IXCMMSGC) to save the message for later processing. This token is valid for use only in the context of a message-exit routine. |
| 84 | (54) | CHARACTER | 24 | MEPLRESPONSEID | Applies to version 1 Message Response ID. Valid when the MepINeedsResponse flag is '1'B, otherwise undefined. Specify this value for the RESPONSEID keyword when invoking the message-out service (IXCMMSGO) to reply to this message. |
| 108 | (6C) | ADDRESS | 4 | MEPLEXTENSIONADDR | Applies to version 1 Address of additional data provided to the message exit. Valid when MepIExtensionData flag is set to '1'B, otherwise undefined. |
| 112 | (70) | SIGNED | 4 | MEPLSTREAMID | Applies to version 1 StreamID for this message |
| 112 | (70) | X'74' | 0 | MEPLLEN | "116" Length in bytes of the latest version of the MEPL (name preserved for compatibility with previous releases). |

IXCYMEPL Cross Reference

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------------------------------|-----|------------|-----|------------|-------------|
| Dec | Hex | | | | |
| Comment | | | | | |
| Version numbers for MepIVersion | | | | | |
| End of Comment | | | | | |

| | | | | | |
|-----|------|-------|---|---------------|---------------|
| 112 | (70) | X'0' | 0 | MEPLKVERSION0 | "0" Version 0 |
| 112 | (70) | X'1' | 0 | MEPLKVERSION1 | "1" Version 1 |
| 112 | (70) | X'74' | 0 | MEPL_LEN | **-MEPL" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|-----------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | MEPLEX | Message exit parameter list Extension. Additional data provided to the message exit when MepIExtensionData='1'B. Applies to version 1 |
| 0 | (0) | BITSTRING | 8 | MEPLEXUSERDATA | Data associated with the saved message by the target member. For user solicited delivery (MepISolicited='1'B), contains a copy of the user data specified by the USERDATA keyword when the message was saved by the message-control service (IXCMSGC). If USERDATA was not specified, set to hexadecimal zero. |
| 8 | (8) | BITSTRING | 4 | MEPLEXFLAGS | Reserved |
| 12 | (C) | BITSTRING | 8 | MEPLEXEXITPARMS | User parameters. Valid for user solicited delivery (MepISolicited='1'B), in which case it contains a copy of the data specified for the EXITPARMS keyword when the message control service (IXCMSGC) was invoked to recall the message exit. If no EXITPARMS was specified, set to hexadecimal zero. |
| 12 | (C) | X'14' | 0 | MEPLEX_LEN | **-MEPLEX" |

IXCYMEPL Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|-------------------|------------|-----------|--------------------|------------|-----------|
| MEPL | 0 | | MEPLMLLEN | C | |
| MEPL_LEN | 70 | 74 | MEPLMSGITOKEN | 44 | |
| MEPLCNTL | 18 | | MEPLMTOK | 0 | |
| MEPLDELIVERED | 39 | 10 | MEPLNEEDSRESPONSE | 39 | 40 |
| MEPLEX | 0 | | MEPLORDEREDMSG | 39 | 4 |
| MEPLEX_LEN | C | 14 | MEPLRESPONSEID | 54 | |
| MEPLEXEXITPARMS | C | | MEPLSAVED | 39 | 8 |
| MEPLEXFLAGS | 8 | | MEPLSOLICITED | 39 | 80 |
| MEPLEXTENSIONADDR | 6C | | MEPLSRCE | 10 | |
| MEPLEXTENSIONDATA | 39 | 1 | MEPLSTREAMID | 70 | |
| MEPLEXUSERDATA | 0 | | MEPLTARGETMEMTOKEN | 3C | |
| MEPLFLAGS | 39 | | MEPLVERSION | 38 | |
| MEPLISARESPONSE | 39 | 20 | | | |
| MEPLKVERSION0 | 70 | 0 | | | |
| MEPLKVERSION1 | 70 | 1 | | | |
| MEPLLEN | 70 | 74 | | | |
| MEPLMDAT | 4 | | | | |

IXCYMNPL Programming Interface information

Programming Interface information

IXCYMNPL

End of Programming Interface information

IXCYMNPL Heading Information

Common Name: Message Notification Exit Parameter List
Macro ID: IXCYMNPL
DSECT Name: Mnpl MnplDataRecord MnplTargOnlyEntry MnplTargRespEntry MnplMemberRecord
Owning Component: Cross System Coupling Facility (SCXCF)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: 245, 248
 Key: 0
 Residency: Any
Size: MNPLMEMBERRECORD -- X'0024' bytes
 MNPL -- X'0028' bytes
 MNPLDATAARECORD -- X'0010' bytes
 MNPLTARGONLYENTRY -- X'0010' bytes
 MNPLTARGRESPENTRY -- X'0068' bytes
Created by: IXCS1COM
 IXCS1MSC
Pointed to by: R1 on entry to the message notification exit
Serialization: Serialized by virtue of the fact that there is but one message notification exit routine presented with a particular MNPL at any one time.
Function: Maps the parameters passed to the message notification exit

IXCYMNPL Map

| Offsets | | | | | |
|---------|------|------------|-----|--------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | MNPL | Message Notification exit Parameter List |
| 0 | (0) | SIGNED | 1 | MNPLVERSION | Version number of this parameter list |
| 1 | (1) | SIGNED | 1 | MNPLTYPE | Type of notification that is presented. See MnplKType constants defined below. Note: assume that new types of message notifications will be presented in the future. |
| 2 | (2) | BITSTRING | 2 | MNPLFLAGS (0) | Notification flags Flags describing characteristics of the notification or its presentation. |
| | | 1... | | MNPLSOLICITED | "X'80" Indicates whether notification was solicited by the user: '0'B when notification is initiated by XCF, '1'B for notification solicited by the user (the member invoked IXCMSGC CALLEXIT service to call a notify exit routine). Note that a user solicited notification can be the first notification that is presented. |
| 2 | (2) | BITSTRING | 1 | | Reserved. |
| 4 | (4) | SIGNED | 4 | | Reserved. |
| 8 | (8) | BITSTRING | 8 | MNPLMEMTOKEN | Member token of the member to which this notification is presented. |
| 16 | (10) | BITSTRING | 8 | MNPLMEMDATA | Copy of the member data specified by the MEMDATA keyword when the Join Service (IXCJOIN) was invoked by the member to which this notification is presented. |
| 24 | (18) | BITSTRING | 8 | MNPLEXITPARMS | User exit parameters. For a solicited notification (MnplSolicited='1'B), contains a copy of the data specified for the EXITPARMS keyword when the message control service (IXCMSGC) was invoked to call the notify routine. For an unsolicited notification (MnplSolicited='0'B), set to hexadecimal zero. |
| 32 | (20) | SIGNED | 4 | MNPL#DATAARECORDS | Number of data records provided. |
| 36 | (24) | SIGNED | 4 | MNPLDATAARECOFFSET | Offset from the start of the MNPL at which the first data record can be found. |

| Offsets | | | | | |
|--|------|------------|-----|-----------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| Comment | | | | | |
| ----- | | | | | |
| Type of Notification | | | | | |
| Exploiters should assume that new types of notification will be provided in the future. The notify exit user routine should be coded to tolerate them. | | | | | |
| ----- | | | | | |
| End of Comment | | | | | |
| 36 | (24) | X'0' | 0 | MNPLKVERSION0 | "0" Initial version |
| 36 | (24) | X'1' | 0 | MNPLKTYPEMSGOCOMplete | "1" Message Out request completed. |
| 36 | (24) | X'2' | 0 | MNPLKTYPEPERESUMEMSGO | "2" The member can once again invoke the message-out service (IXCMSGO). |
| 36 | (24) | X'28' | 0 | MNPL_LEN | **-MNPL" |

| Offsets | | | | | |
|---------|------|------------|-----|-----------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | MNPLDATARECORD | Data record |
| 0 | (0) | SIGNED | 1 | MNPLRECTYPE | Type of data described in this record. |
| 1 | (1) | CHARACTER | 3 | | Reserved |
| 4 | (4) | SIGNED | 4 | MNPLRECLen | Number of bytes in this data record. |
| 8 | (8) | CHARACTER | 8 | | Reserved |
| 16 | (10) | CHARACTER | 1 | MNPLRECData (0) | Variable content of the record. Use MnplRecType to determine which of the mappings below is applicable. |

| | | | | | |
|--|------|-------|---|--------------------|--------------------|
| Comment | | | | | |
| ----- | | | | | |
| Record Types | | | | | |
| Exploiters should assume that new record types will be provided in the future. The notify exit user routine should be coded to tolerate them. In particular note that new types of records can be inserted into the collection of records that are provided for a particular type of notification. | | | | | |
| ----- | | | | | |
| End of Comment | | | | | |
| 16 | (10) | X'1' | 0 | MNPLKRECTYPEMSGOUT | "1" Msgout record |
| 16 | (10) | X'10' | 0 | MNPLDATARECORD_LEN | **-MNPLDATARECORD" |

| | | | | | |
|--|------|-----------|----|----------------------|---|
| Comment | | | | | |
| ----- | | | | | |
| Msgout RecData | | | | | |
| Applies when: MnplRecType = MnplKRecTypeMsgout | | | | | |
| Provided for: MnplType = MnplKTypeMsgoComplete | | | | | |
| ----- | | | | | |
| End of Comment | | | | | |
| 16 | (10) | BITSTRING | 1 | MNPLMSGOUTRECORD (0) | Token used to identify this message and any associated responses to other XCF services (such as IXCMSGC). |
| 16 | (10) | CHARACTER | 16 | MNPLMSGOTOKEN | |
| 32 | (20) | BITSTRING | 8 | MNPLMSGOUSERDATA | |

IXCYMNPL Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-----------------------|---|
| Dec | Hex | | | | |
| | | | | | User data associated with the message. Contains a copy of the data specified for the USERDATA keyword when the message-out service (IXCMSGO) was invoked to send the message or as modified by the message control service (IXCMSGC) when message was saved or completed. |
| 40 | (28) | BITSTRING | 4 | MNPLMSGOFLAGS (0) | |
| 40 | (28) | BITSTRING | 1 | MNPLMSGOFLAGS0 (0) | Flags byte 0 describing characteristics of the message |
| | | 1... .. | | MNPLMSGOBROADCAST | "X'80" Indicates that the sender specified SENDTO(GROUP) on the IXCMSGO invocation. |
| | | .1.. .. | | MNPLMSGOGETRESPONSE | "X'40" Indicates whether the sender of this message requested XCF management of responses. |
| | | ..1. | | MNPLMSGOISARESPONSE | "X'20" Indicates whether this message is a response being managed by XCF. |
| | | ...1 | | MNPLMSGOSENDPENDING | "X'10" Desired send(s) not initiated by the message-out service. |
| | | 1... | | MNPLMSGORESPENDING | "X'08" Expected response(s) not received. |
| | |1.. | | MNPLMSGOCOMPLETED | "X'04" Indicates whether message considered to be complete. Note that this flag is not mutually exclusive with the Send/RespPending flags since completion may have been forced or the message may have timed out. |
| | |1. | | MNPLMSGOTIMEDOUT | "X'02" '1'B if the message did not complete within the time-out period. |
| | |1 | | MNPLMSGOCANCELLED | "X'01" '1'B if the message was cancelled before normal completion occurred. The message is considered cancelled if it was Forced to Completion. |
| 41 | (29) | BITSTRING | 1 | MNPLMSGOFLAGS1 (0) | Flags byte 1 describing characteristics of the message |
| | | 1... .. | | MNPLMSGONOTIFYBYEXIT | "X'80" Sender requested notification of message completion by exit scheduled by XCF when the message is complete |
| | | ..1. | | MNPLMSGOSUCCESSFUL | "X'20" Indicates whether the request completed successfully where no sends were rejected and all responses were received for broadcast get response requests or no sends were rejected for broadcast noresponse requests |
| | | ...1 | | MNPLMSGOSAVED | "X'10" Message was saved |
| | | 1... | | MNPLMSGOASYNCSGACCESS | "X'08" Indicates whether XCF had to access user storage describing/containing the message even after the IXCMSGO service returned. |
| 42 | (2A) | BITSTRING | 1 | MNPLMSGOFLAGS2 | Flags byte 2 |
| 43 | (2B) | BITSTRING | 1 | MNPLMSGOFLAGS3 | Flags byte 3 |
| 44 | (2C) | SIGNED | 4 | MNPLMSGOMLEN | Number of bytes of message data for message-out request |
| 48 | (30) | BITSTRING | 8 | MNPLMSGOSOURCE | Member token of the sending member. |
| 56 | (38) | CHARACTER | 32 | MNPLMSGOMSGCNTL | Message control data from the message out request |
| 88 | (58) | SIGNED | 4 | MNPLMSGO#TARGETS | Number of targets for message (including skipped targets). |
| 92 | (5C) | CHARACTER | 4 | | Reserved |

| Offsets | | | | | |
|---------|------|------------|-----|--------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 96 | (60) | ADDRESS | 4 | MNPLMSGOTBLPTR | Address of table containing target/response information for this message. Entries in the table are mapped by one of the following: MnplTargOnlyEntry MnplTargRespEntry Use MnplMsgoEntType to determine which mapping should be used. Reserved |
| 100 | (64) | CHARACTER | 1 | MNPLMSGOENTTYPE | |
| 101 | (65) | SIGNED | 1 | | |
| | | | | | Code that identifies which mapping to use for the entries in the table of target/response data |
| 102 | (66) | SIGNED | 2 | MNPLMSGOENTLEN | Length in bytes of an individual entry in the table containing target/response information. |
| 102 | (66) | X'1' | 0 | MNPLKMSGOENTTYPETARGONLY | "1" Use MnplTargOnlyEntry |
| 102 | (66) | X'2' | 0 | MNPLKMSGOENTTYPETARGRESP | "2" Use MnplTargRespEntry |
| 102 | (66) | X'58' | 0 | MNPLMSGOUTRECORD_LEN | "*-MNPLMSGOUTRECORD" |

| Offsets | | | | | |
|---------|-----|------------|-----|--------------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | MNPLTARGONLYENTRY | Entry to describe result of send to one particular target member. |
| 0 | (0) | BITSTRING | 8 | MNPLTOTARGET | |
| 8 | (8) | BITSTRING | 4 | MNPLTOSENDSTATUS | Status of the message send |
| | | | | (0) | |
| 8 | (8) | BITSTRING | 2 | MNPLTOSENDFLAGS | "X'80" '1'B if XCF initiated the send to this target member It is not necessarily the case that the initiated send was successful. |
| | | 1... .. | | MNPLTOSENDINITIATED | |
| | | | | | "X'40" '1'B if target member token is hexadecimal zero, indicating that sender wanted to skip an entry in a message-out target table. |
| | | .1.. .. | | MNPLTOSENDSKIPPED | |
| | | | | | "X'20" '1'B if the send to this target member is pending. The message is eligible to be sent. MnplToSendInitiated indicates whether XCF has initiated the send. |
| | | ..1. | | MNPLTOSENDPENDING | |
| | | | | | "X'10" '1'B if the send to this target member is rejected. The message is not eligible to be sent. |
| | | ...1 | | MNPLTOSENDREJECTED | |
| | | | | | "X'08" '1'B if an AsyncMsgAccess send to this target member was started |
| | | 1... | | MNPLTOSENDASYNCMSGACCESS | |
| 8 | (8) | BITSTRING | 1 | MNPLTOSENDDIAG109 | XCF diagnostic info |
| 10 | (A) | SIGNED | 1 | MNPLTOSENDRETCODE | Reserved. |
| 11 | (B) | SIGNED | 1 | | Return code from message-out service (IXCMSGO) with respect to the send to this particular target. |
| 12 | (C) | SIGNED | 4 | MNPLTOSENDRSNCODE | |
| 12 | (C) | X'10' | 0 | MNPLTARGONLYENTRY_LEN | Valid if MnplToSendRetCode is nonzero. If so, contains failing reason code from message-out service. |
| | | | | | ** -MNPLTARGONLYENTRY" |

| Offsets | | | | | |
|---------|-----|------------|-----|-------------------|-------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | MNPLTARGRESPENTRY | |

IXCYMNPL Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|---------------------------|---|
| Dec | Hex | | | | |
| | | | | | Entry to describe result of send to and response from one target member. |
| 0 | (0) | BITSTRING | 8 | MNPLTRTARGET | Target member token. |
| 8 | (8) | BITSTRING | 4 | MNPLTRSENDSTATUS (0) | Status of the message send |
| 8 | (8) | BITSTRING | 2 | MNPLTRSENDFLAGS (0) | |
| | | 1... | | MNPLTRSENDINITIATED | "X'80" '1'B if XCF initiated the send to this target member It is not necessarily the case that the initiated send was successful. |
| | | .1.. | | MNPLTRSENDSKIPPED | "X'40" '1'B if target member token is hexadecimal zero, indicating that sender wanted to skip an entry in a message-out target table. |
| | | ..1. | | MNPLTRSENDPENDING | "X'20" '1'B if the send to this target member is pending. The message is eligible to be sent. MnplTrSendInitiated indicates whether XCF has initiated the send. |
| | | ...1 | | MNPLTRSENDREJECTED | "X'10" '1'B if the send to this target member is rejected. The message is not eligible to be sent. |
| | | 1... | | MNPLTRSENDASYNCSMSGACCESS | "X'08" '1'B if an AsyncMsgAccess send to this target member was started |
| 8 | (8) | BITSTRING | 1 | MNPLTRSENDDIAG109 | XCF diagnostic info |
| 10 | (A) | SIGNED | 1 | | Reserved. |
| 11 | (B) | SIGNED | 1 | MNPLTRSENDRETCODE | Return code from message-out service (IXCMSGO) with respect to the send to this particular target. |
| 12 | (C) | SIGNED | 4 | MNPLTRSENDRSNCODE | Valid if MnplTrSendretCode is nonzero. If so, contains failing reason code from message-out service. |
| 16 | (10) | BITSTRING | 4 | MNPLTRRESPSTATUS (0) | Status of response message |
| 16 | (10) | BITSTRING | 2 | MNPLTRRESPFLAGS (0) | Status of response. Note: these status flags will be updated by XCF while the notify exit is running to reflect any processing of the response that is performed by the exit routine. |
| | | 1... | | MNPLTRRESPEXPECTED | "X'80" '1'B if XCF expected the the target member to respond, '0'B if not. Initialized according to whether the sending member requested that XCF manage the gathering of a response to this message. Reset if XCF determines that it should no longer expect a response (such as when target member becomes not active). |
| | | .1.. | | MNPLTRRESPRECEIVED | "X'40" '1'B if a response was received by XCF, '0'B if not. |
| | | ..1. | | MNPLTRRESPAVAILABLE | "X'20" '1'B if the associated response is available, '0'B if not. If response is available, MnplTrMsgiToken is valid for use. If the response was received but the associated response is not available, the response was delivered, saved, or discarded. |
| | | ...1 | | MNPLTRRESPDELIVERED | "X'10" '1'B if some portion of the response was delivered by message-in service, '0'B if none of the response was delivered |
| | | 1... | | MNPLTRRESPSAVED | "X'08" '1'B if the response was saved with the message control SAVEMSG service. |
| | |1.. | | MNPLTRRESPDISCARDED | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-----------------------------|---|
| Dec | Hex | | | | |
| 16 | (10) | BITSTRING | 1 | MNPLTRRESPCODE | "X'04" '1'B if the response was discarded with the message control DISCARDMSG service. |
| 18 | (12) | SIGNED | 1 | | Reserved. |
| 19 | (13) | SIGNED | 1 | | Reserved. |
| 20 | (14) | SIGNED | 4 | MNPLTRRESPMLEN | Code to explain why XCF believes the response was not received. See MnplKRespCode constants defined below. Valid when MnplTrRespReceived is '0'B. |
| 24 | (18) | BITSTRING | 8 | MNPLTRRESPSRCE | Total number of bytes of message data available (remaining) for delivery via the message-in service. The length is accurate only on entry to the exit routine. It is NOT updated while the exit routine is running to reflect any partial deliveries performed by the exit. Valid when MnplTrRespAvailable is '1'B. |
| 32 | (20) | CHARACTER | 32 | MNPLTRRESPCNTL | Member token of originator of the response. Valid when MnplTrRespReceived is '1'B. |
| 64 | (40) | CHARACTER | 16 | MNPLTRMSGITOKEN | MSGCNTL value from originator of the response. Valid when MnplTrRespReceived is '1'B. |
| 80 | (50) | CHARACTER | 24 | MNPLKRESPCODENOTRECEIVED | Token to identify the response message. Specify this value for the TOKEN keyword when invoking the message-in service or the message control service to process this message. Valid when MnplTrRespAvailable is '1'B. |
| 80 | (50) | X'0' | 0 | | reserved |
| 80 | (50) | X'1' | 0 | | "0" Expected response did not arrive before message completed |
| 80 | (50) | X'2' | 0 | MNPLKRESPCODEMSGNOTSENT | "1" Message-out request was never sent to the target member. |
| 80 | (50) | X'3' | 0 | MNPLKRESPCODECANREPLYNO | "2" Target specified NO for CANREPLY on IXCJOIN service, or target member is active on a system that does not support XCF managed collection of responses. |
| 80 | (50) | X'4' | 0 | MNPLKRESPCODETARGETINACTIVE | "3" Target member not active |
| 80 | (50) | X'68' | 0 | MNPLTARGRESPENTRY_LEN | "*-MNPLTARGRESPENTRY" |

IXCYMNPL Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|--------------------------|------------|-----------|-----------------------------|------------|-----------|
| MNPL | 0 | | MNPLKRESPCODEMSGNOTSENT | 50 | 1 |
| MNPL_LEN | 24 | 28 | MNPLKRESPCODENOTRECEIVED | 50 | 0 |
| MNPL#DATARECORDS | 20 | | MNPLKRESPCODETARGETINACTIVE | 50 | 3 |
| MNPLDATARECOFFSET | 24 | | MNPLKTYPEMSGOCOMplete | 24 | 1 |
| MNPLDATARECORD | 0 | | MNPLKTYPEPERESUMEMSGO | 24 | 2 |
| MNPLDATARECORD_LEN | 10 | 10 | MNPLKVERSION0 | 24 | 0 |
| MNPLEXITPARMS | 18 | | MNPLMEMDATA | 10 | |
| MNPLFLAGS | 2 | | MNPLMEMTOKEN | 8 | |
| MNPLKMSGOENTTYPETARGONLY | 66 | 1 | MNPLMSGO#TARGETS | 58 | |
| MNPLKMSGOENTTYPETARGRESP | 66 | 2 | MNPLMSGOASYNCSMSGACCESS | 29 | 8 |
| MNPLKRECTYPEMSGOUT | 10 | 1 | MNPLMSGOBROADCAST | 28 | 80 |
| MNPLKRESPCODECANREPLYNO | 50 | 2 | MNPLMSGOCANCELLED | | |

IXCYMNPL Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|---------------------------|---------------|--------------|---------------------------|---------------|--------------|
| | 28 | 1 | MNPLTOSENDFLAGS | | |
| MNPLMSGOCOMPLETED | | | | 8 | |
| | 28 | 4 | MNPLTOSENDINITIATED | | |
| MNPLMSGOENTLEN | | | | 8 | 80 |
| | 66 | | MNPLTOSENDPENDING | | |
| MNPLMSGOENTTYPE | | | | 8 | 20 |
| | 65 | | MNPLTOSENDREJECTED | | |
| MNPLMSGOFLAGS | | | | 8 | 10 |
| | 28 | | MNPLTOSENDRETCODE | | |
| MNPLMSGOFLAGS0 | | | | B | |
| | 28 | | MNPLTOSENDRSNCODE | | |
| MNPLMSGOFLAGS1 | | | | C | |
| | 29 | | MNPLTOSENDSKIPPED | | |
| MNPLMSGOFLAGS2 | | | | 8 | 40 |
| | 2A | | MNPLTOSENDSTATUS | | |
| MNPLMSGOFLAGS3 | | | | 8 | |
| | 2B | | MNPLTOTARGET | 0 | |
| MNPLMSGOGETRESPONSE | | | MNPLTRMSGITOKEN | | |
| | 28 | 40 | | 40 | |
| MNPLMSGOISARESPONSE | | | MNPLTRRESPAVAILABLE | | |
| | 28 | 20 | | 10 | 20 |
| MNPLMSGOMLEN | 2C | | MNPLTRRESPCNTL | | |
| MNPLMSGOMSGCNTL | | | | 20 | |
| | 38 | | MNPLTRRESPCODE | | |
| MNPLMSGONOTIFYBYEXIT | | | | 13 | |
| | 29 | 80 | MNPLTRRESPDELIVERED | | |
| MNPLMSGORESPPENDING | | | | 10 | 10 |
| | 28 | 8 | MNPLTRRESPDISCARDED | | |
| MNPLMSGOSAVED | | | | 10 | 4 |
| | 29 | 10 | MNPLTRRESPEXPECTED | | |
| MNPLMSGOSENDPENDING | | | | 10 | 80 |
| | 28 | 10 | MNPLTRRESPFLAGS | | |
| MNPLMSGOSOURCE | | | | 10 | |
| | 30 | | MNPLTRRESPMLEN | | |
| MNPLMSGOSUCCESSFUL | | | | 14 | |
| | 29 | 20 | MNPLTRRESPRECEIVED | | |
| MNPLMSGOTBLPTR | | | | 10 | 40 |
| | 60 | | MNPLTRRESPSAVED | | |
| MNPLMSGOTIMEDOUT | | | | 10 | 8 |
| | 28 | 2 | MNPLTRRESPSRCE | | |
| MNPLMSGOTOKEN | | | | 18 | |
| | 10 | | MNPLTRRESPSTATUS | | |
| MNPLMSGOUSERDATA | | | | 10 | |
| | 20 | | MNPLTRSENDASYNCSMSGACCESS | | |
| MNPLMSGOUTRECORD | | | | 8 | 8 |
| | 10 | | MNPLTRSENDDIAG109 | | |
| MNPLMSGOUTRECORD_LEN | | | | 8 | |
| | 66 | 58 | MNPLTRSENDFLAGS | | |
| MNPLRECDATA | 10 | | | 8 | |
| MNPLRECLEN | 4 | | MNPLTRSENDINITIATED | | |
| MNPLRECTYPE | 0 | | | 8 | 80 |
| MNPLSOLICITED | | | MNPLTRSENDPENDING | | |
| | 2 | 80 | | 8 | 20 |
| MNPLTARGONLYENTRY | | | MNPLTRSENDREJECTED | | |
| | 0 | | | 8 | 10 |
| MNPLTARGONLYENTRY_LEN | | | MNPLTRSENDRETCODE | | |
| | C | 10 | | B | |
| MNPLTARGRESPENTRY | | | MNPLTRSENDRSNCODE | | |
| | 0 | | | C | |
| MNPLTARGRESPENTRY_LEN | | | MNPLTRSENDSKIPPED | | |
| | 50 | 68 | | 8 | 40 |
| MNPLTOSENDASYNCSMSGACCESS | | | MNPLTRSENDSTATUS | | |
| | 8 | 8 | | 8 | |
| MNPLTOSENDDIAG109 | | | MNPLTRTARGET | 0 | |
| | 8 | | MNPLTYPE | 1 | |

| Name | Hex Offset | Hex Value |
|-------------|---------------|--------------|
| MNPLVERSION | 0 | |

IXCYMQAA Programming Interface information

Programming Interface information

IXCYMQAA

End of Programming Interface information

IXCYMQAA Heading Information

Common Name: Message Control Query Answer Area
Macro ID: IXCYMQAA
DSECT Name: MqaHdr MqaEntry MqaTargOnlyEntry MqaTargRespEntry
Owning Component: Cross System Coupling Facility (SCXCF)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: User-supplied
 Key: User-supplied
 Residency: User-supplied
Size: Variable
 MQAHDR -- X'0010' bytes
 MQAENTRY -- X'0010' bytes
 MQATARGONLYENTRY -- X'0010' bytes
 MQATARGRESPENTRY -- X'0014' bytes
Created by: IXCS1MSC
Pointed to by: ANSAREA_ADDR field in IXCMSGC parameter list
Serialization: None required
Function: Maps information returned by the XCF Message-Control Service (IXCMSGC) for REQUEST(QUERYMSG).

IXCYMQAA Map

| Offsets | | | | | |
|---------|-----|------------|-----|-----------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | MQAHDR | Header record returned on all queries. |
| 0 | (0) | SIGNED | 4 | MQAHDRLEN | Length in bytes of MqaHeader |
| 4 | (4) | SIGNED | 4 | MQAHDRTLEN | Total length in bytes of data area needed to contain all the requested information This length includes the header as well as the entries that WERE returned on this call. |
| 8 | (8) | SIGNED | 4 | MQAHDR#ENTRIES | Number of complete entries of all kinds that were returned on this call (does not include the header). |
| 12 | (C) | SIGNED | 4 | MQAHDRENTOFFSET | Offset from MqaHeader at which first entry is located. |
| 12 | (C) | X'10' | 0 | MQAHDR_LEN | **-MQAHDR" |

| Offsets | | | | | |
|---------|------|------------|-----|----------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | MQAENTRY | Data record |
| 0 | (0) | SIGNED | 1 | MQAENTTYPE | Type of data described in this entry. |
| 1 | (1) | CHARACTER | 3 | | Reserved |
| 4 | (4) | SIGNED | 4 | MQAENTLEN | Number of bytes in this entry. Use this value when iterating through records. DO NOT hard code length of the records. |
| 8 | (8) | CHARACTER | 8 | | Reserved |
| 16 | (10) | CHARACTER | 1 | MQAENTDATA (0) | Variable content of the record. Use MqaEntType to determine which of the mappings below is applicable. |

Comment

MQAA Entry Types

End of Comment

| | | | | | |
|----|------|------------|---|--------------|----------------------------|
| | |1 | | MQAKTYPEMOS | "X'01" Message-out Summary |
| | |1. | | MQAKTYPEMIS | "X'02" Message-in Summary |
| | |11 | | MQAKTYPEMOD | "X'03" Message-out Detail |
| | |1.. | | MQAKTYPEMID | "X'04" Message-in Detail |
| 16 | (10) | X'10' | 0 | MQAENTRY_LEN | **-MQAENTRY" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------------------|------|------------|-----|-------------------------|---|
| Dec | Hex | | | | |
| Comment | | | | | |
| Message Out Summary | | | | | |
| End of Comment | | | | | |
| 16 | (10) | BITSTRING | 1 | MQAMSGOUTSUMMARY (0) | |
| 16 | (10) | CHARACTER | 16 | MQAMOSTOKEN | Token used to identify this message to the message-control service (IXCMSGC). |
| 32 | (20) | BITSTRING | 8 | MQAMOSUSERDATA | User data associated with the message. Contains a copy of the data specified for the USERDATA keyword when the message-out service (IXCMSGO) was invoked to send the message or as modified by the message control service (IXCMSGC) when message was saved or completed. |
| 40 | (28) | BITSTRING | 4 | MQAMOSFLAGS (0) | |
| 40 | (28) | BITSTRING | 1 | MQAMOSFLAGS0 (0) | |
| | | 1... .. | | MQAMOSBROADCAST | "X'80" Indicates that the sender specified SENDTO(GROUP) on the IXCMSGO invocation. |
| | | .1.. .. | | MQAMOSGETRESPONSE | "X'40" Indicates whether the sender of this message requested XCF management of responses. |
| | | ..1. | | MQAMOSISARESPONSE | "X'20" Indicates whether this message is a response being managed by XCF. |
| | | ...1 | | MQAMOSSENDPENDING | "X'10" Desired send(s) not initiated by the message-out service. |
| | | 1... | | MQAMOSRESPPENDING | "X'08" Expected response(s) not received. |
| | |1.. | | MQAMOSCOMPLETED | "X'04" Indicates whether message considered to be complete. Note that this flag is not mutually exclusive with the Send/RespPending flags since completion may have been forced or the message may have timed out. |
| | |1. | | MQAMOSTIMEDOUT | "X'02" '1'B if the message did not complete within the time-out period. |
| | |1 | | MQAMOSCANCELLED | "X'01" '1'B if the message did not complete before the message-out request was cancelled. |
| 41 | (29) | BITSTRING | 1 | MQAMOSFLAGS1 (0) | |
| | | 1... .. | | MQAMOSNOTIFYBYEXIT | "X'80" Sender requested notification by Exit when complete. |
| | | .1.. | | MQAMOSDISCARDPENDING | "X'40" Indicates that the message was marked for discard but the discard has not yet completed. |
| | | ..1. | | MQAMOSUCCESSFUL | "X'20" Indicates whether the request completed successfully where no sends were rejected and all responses were received for broadcast get response requests or no sends were rejected for broadcast noresponse requests |
| | | ...1 | | MQAMOSAVED | "X'10" Message was saved. |
| | | 1... | | MQAMOSASYNCSMSGACCESS | "X'08" Indicates whether XCF had to access user storage describing/containing the message even after the IXCMSGO service returned. |
| 42 | (2A) | BITSTRING | 1 | MQAMOSFLAGS2 | |
| 43 | (2B) | BITSTRING | 1 | MQAMOSFLAGS3 | |
| 43 | (2B) | X'1C' | 0 | MQAMSGOUTSUMMARY_LEN | |

IXCYMQAA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|----------------------|------|------------|-----|------------------------|---|
| Dec | Hex | | | | |
| **-MQAMSGOUTSUMMARY" | | | | | |
| Comment | | | | | |
| Message In Summary | | | | | |
| End of Comment | | | | | |
| 16 | (10) | BITSTRING | 1 | MQAMSGINSUMMARY (0) | |
| 16 | (10) | CHARACTER | 16 | MQAMISTOKEN | Token used to identify this message to the message-control service (IXCMSGC). |
| 32 | (20) | CHARACTER | 8 | MQAMISUSERDATA | User data associated with the message. This is the data specified for the USERDATA keyword when the IXCMSGC service was invoked to save the message. |
| 40 | (28) | CHARACTER | 8 | MQAMISSOURCE | Member token of the member that sent this message. |
| 48 | (30) | SIGNED | 1 | | Reserved. |
| 49 | (31) | BITSTRING | 3 | MQAMISFLAGS (0) | Flags describing characteristics of the message or its delivery. |
| | | 1... | | MQAMISDISCARDPENDING | "X'80" Indicates that the Message was saved by the IXCMSGC service and was later discarded but the discard has not yet completed |
| | | .1.. | | MQAMISNEEDSRESPONSE | "X'40" Indicates whether the sender requested that XCF manage the gathering of a response to this message: '1'B if XCF is managing the response, '0'B if not. If so, send a response using the IXCMSGO service, specifying ORIGINATOR for the SENDTO keyword and supplying a RESPONSEID equal to the value provided in the MqaMidResponseID field below. Note that this flag reflects a specification made by the sender when the message was originally sent, and cannot be used to determine whether the desired response was sent or received. |
| | | ..1. | | MQAMISISARESPONSE | "X'20" Indicates whether this message is a response that is being managed by XCF: '1'B if it is an XCF managed response, '0'B if not. |
| | | ...1 | | MQAMISDELIVERED | "X'10" '1'B if some portion of the message was delivered by message-in service, '0'B if none of the message was delivered |
| | | 1... | | MQAMISSAVED | "X'08" '1'B if the message was saved with the message control SAVEMSG service. |
| 49 | (31) | BITSTRING | 2 | | Reserved. |
| 52 | (34) | X'24' | 0 | MQAMSGINSUMMARY_LEN | **-MQAMSGINSUMMARY" |
| Comment | | | | | |
| Message In Detail | | | | | |
| End of Comment | | | | | |
| 16 | (10) | BITSTRING | 1 | MQAMSGINDETAIL (0) | |
| 16 | (10) | CHARACTER | 16 | MQAMIDTOKEN | Token used to identify this message to the message-control service (IXCMSGC). |
| 32 | (20) | CHARACTER | 8 | MQAMIDUSERDATA | User data associated with the message. This is the data specified for the USERDATA keyword when the IXCMSGC service was invoked to save the message. |
| 40 | (28) | SIGNED | 4 | MQAMIDMLen | Total number of bytes of message data available (remaining) for delivery via the message-in service. |
| 44 | (2C) | CHARACTER | 8 | MQAMIDSOURCE | Member token of the member that sent this message. |
| 52 | (34) | CHARACTER | 32 | MQAMIDMSGCNTL | MSGCNTL value from originator of the signal |

| Offsets | | | | | |
|---------|------|------------|-----|----------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 84 | (54) | SIGNED | 1 | | Reserved. |
| 85 | (55) | BITSTRING | 3 | MQAMIDFLAGS (0) | Flags describing characteristics of the message or its delivery. |
| | | 1... | | MQAMIDDISCARDPENDING | "X'80" Indicates that the Message was saved by the IXCMSGC service and was later discarded but the discard has not yet completed |
| | | .1.. | | MQAMIDNEEDSRESPONSE | "X'40" Indicates whether the sender requested that XCF manage the gathering of a response to this message: '1'B if XCF is managing the response, '0'B if not. If so, send a response using the IXCMSGO service, specifying ORIGINATOR for the SENDTO keyword and supplying a RESPONSEID equal to the value provided in the MqaMidResponseID field below. Note that this flag reflects a specification made by the sender when the message was originally sent, and cannot be used to determine whether the desired response was sent or received. |
| | | ..1. | | MQAMIDISARESPONSE | "X'20" Indicates whether this message is a response that is being managed by XCF: '1'B if it is an XCF managed response, '0'B if not. |
| | | ...1 | | MQAMIDDELIVERED | "X'10" '1'B if some portion of the message was delivered by message-in service, '0'B if none of the message was delivered |
| | | 1... | | MQAMIDSAVED | "X'08" '1'B if the message was saved with the message control SAVEMSG service. |
| 85 | (55) | BITSTRING | 2 | | Reserved. |
| 88 | (58) | CHARACTER | 24 | MQAMIDRESPONSEID | Message Response ID. Valid when the MqaMidNeedsResponse flag is '1'B, otherwise undefined. Specify this value for the RESPONSEID keyword when invoking the message-out service (IXCMSGO) to reply to this message. |
| 88 | (58) | X'60' | 0 | MQAMSGINDETAIL_LEN | "*-MQAMSGINDETAIL" |

Comment

Message Out Detail

This record has variable length. It is designed so that the user can set up a pointer to a table of target/response entries. The entire table is contained within this one record. First target/response entry is found as follows:

TblEntryptr = addr(MqaEntry) + MqaModTblOffset

Subsequent entries are located as follows:

TblEntryptr = TblEntryptr + MqaModEntLen

End of Comment

| | | | | | |
|----|------|-----------|----|------------------------|---|
| 16 | (10) | BITSTRING | 1 | MQAMSGOUTDETAIL (0) | |
| 16 | (10) | CHARACTER | 16 | MQAMODTOKEN | Token used to identify this message and any associated responses to other XCF services (such as IXCMSGC). |
| 32 | (20) | BITSTRING | 8 | MQAMODUSERDATA | User data associated with the message. Contains a copy of the data specified for the USERDATA keyword when the message-out service (IXCMSGO) was invoked to send the message or as modified by the message control service (IXCMSGC) when message was saved or completed. |
| 40 | (28) | BITSTRING | 4 | MQAMODFLAGS (0) | Flags describing characteristics of the message |
| 40 | (28) | BITSTRING | 1 | MQAMODFLAGSO (0) | |
| | | 1... | | MQAMODBROADCAST | "X'80" Indicates that the sender specified SENDTO(GROUP) on the IXCMSGO invocation. |

IXCYMQAA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------------------|---|
| Dec | Hex | | | | |
| | | .1.. | | MQAMODGETRESPONSE | "X'40" Indicates whether the sender of this message requested XCF management of responses. |
| | | ..1. | | MQAMODISARESPONSE | "X'20" Indicates whether this message is a response being managed by XCF. |
| | | ...1 | | MQAMODSENDPENDING | "X'10" Desired send(s) not initiated by the message-out service. |
| | | 1... | | MQAMODRESPENDING | "X'08" Expected response(s) not received. |
| | |1.. | | MQAMODCOMPLETED | "X'04" Indicates whether message considered to be complete. Note that this flag is not mutually exclusive with the Send/RespPending flags since completion may have been forced or the message may have timed out. |
| | |1. | | MQAMODTIMEDOUT | "X'02" '1'B if the message did not complete within the time-out period. |
| | |1 | | MQAMODCANCELLED | "X'01" '1'B if the message did not complete before the message-out request was cancelled. |
| 41 | (29) | BITSTRING | 1 | MQAMODFLAGS1 (0) | |
| | | 1... | | MQAMODNOTIFYBYEXIT | "X'80" Sender requested notification by exit when complete |
| | | .1.. | | MQAMODDISCARDPENDING | "X'40" Indicates that the message was marked for discard but the discard has not yet completed. |
| | | ..1. | | MQAMODSUCCESSFUL | "X'20" Indicates whether the request completed successfully where no sends were rejected and all responses were received for broadcast get response requests or no sends were rejected for broadcast noresponse requests |
| | | ...1 | | MQAMODSAVED | "X'10" Message was saved. |
| | | 1... | | MQAMODASYNCSMSGACCESS | "X'08" Indicates whether XCF had to access user storage describing/containing the message even after the IXCMSGO service returned. |
| 42 | (2A) | BITSTRING | 1 | MQAMODFLAGS2 | |
| 43 | (2B) | BITSTRING | 1 | MQAMODFLAGS3 | |
| 44 | (2C) | SIGNED | 4 | MQAMODMLN | Number of bytes of message data for message-out request |
| 48 | (30) | BITSTRING | 8 | MQAMODSOURCE | Member token of the sending member. |
| 56 | (38) | CHARACTER | 32 | MQAMODMSGCNTL | Message control data from the message out request |
| 88 | (58) | SIGNED | 4 | MQAMOD#TARGETS | Number of targets for message (including skipped targets). Reserved. |
| 92 | (5C) | SIGNED | 4 | | |
| 96 | (60) | SIGNED | 4 | MQAMODTBLOFFSET | Offset of table containing target/response information for this message. Offset is from the start of the MqaEntry that contains the MqaMsgoutDetail record. Entries in the table are mapped by one of the following: MqaTargOnlyEntry MqaTargRespEntry Use MqaModEntType to determine which mapping should be used. |
| 100 | (64) | CHARACTER | 1 | | Reserved |
| 101 | (65) | SIGNED | 1 | MQAMODENTTYPE | Code that identifies which mapping to use for the entries in the table of target/response data |
| 102 | (66) | SIGNED | 2 | MQAMODENTLEN | Length in bytes of an individual entry in the table containing target/response information. Use this value when iterating through records. DO NOT hard code length of the records. |
| 102 | (66) | X'1' | 0 | MQAMODKENTTYPETARGONLY | "1" Use MqaTargOnlyEntry |
| 102 | (66) | X'2' | 0 | MQAMODKENTTYPETARGRESP | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|---------------------|--|
| Dec | Hex | | | | |
| 102 | (66) | X'58' | 0 | MQAMSGOUTDETAIL_LEN | "2" Use MqaTargRespEntry "-MQAMSGOUTDETAIL" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------------------|-----|-------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | MQATARGONLYENTRY | Entry to describe result of send to one particular target member. |
| 0 | (0) | BITSTRING | 8 | MQATOTARGET | Target member token. |
| 8 | (8) | BITSTRING | 4 | MQATOSENDSTATUS (0) | Status of the message send |
| 8 | (8) | BITSTRING 1... | 2 | MQATOSENDFLAGS (0) | "X'80" '1'B if XCF initiated the send to this target member. It is not necessarily the case that the initiated send was successful. |
| | | | | MQATOSENDINITIATED | |
| | | .1.. | | MQATOSENDSKIPPED | "X'40" '1'B if target member token is hexadecimal zero, indicating that sender wanted to skip an entry in a message-out target table. |
| | | ..1. | | MQATOSENDPENDING | "X'20" '1'B if the send to this target member is pending. XCF has not initiated the send. The message is eligible to be sent. |
| | | ...1 | | MQATOSENDREJECTED | "X'10" '1'B if the send to this target member is rejected. The message is not eligible to be sent. |
| | | 1... | | MQATOSENDASYNCMSGACCESS | "X'08" '1'B if an AsyncMsgAccess send to this target member was started |
| 8 | (8) | BITSTRING | 1 | | Reserved. |
| 10 | (A) | SIGNED | 1 | | Reserved. |
| 11 | (B) | SIGNED | 1 | MQATOSENDRETCODE | Return code from message-out service (IXCMSGO) with respect to the send to this particular target. |
| 12 | (C) | SIGNED | 4 | MQATOSENDRSNCODE | Valid if MqaToSendRetcode is nonzero. If so, contains failing reason code from message-out service. |
| 12 | (C) | X'10' | 0 | MQATARGONLYENTRY_LEN | "*-MQATARGONLYENTRY" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------------------|-----|------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | MQATARGRESPENTRY | Entry to describe result of send to and response from one target member. |
| 0 | (0) | BITSTRING | 8 | MQATRRTARGET | Target member token. |
| 8 | (8) | BITSTRING | 4 | MQATRSENDSTATUS (0) | Status of the message send |
| 8 | (8) | BITSTRING 1... | 2 | MQATRSENDFLAGS (0) | "X'80" '1'B if XCF initiated the send to this target member It is not necessarily the case that the initiated send was successful. |
| | | | | MQATRSENDINITIATED | |
| | | .1.. | | MQATRSENDSKIPPED | "X'40" '1'B if target member token is hexadecimal zero, indicating that sender wanted to skip an entry in a message-out target table. |
| | | ..1. | | MQATRSENDPENDING | |

IXCYMQAA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------------------|---|
| Dec | Hex | | | | |
| | | ...1 | | MQATRSENDREJECTED | "X'20" '1'B if the send to this target member is pending. XCF has not initiated the send. The message is still eligible to be sent. |
| | | 1... | | MQATRSENDASYNCSGACCESS | "X'10" '1'B if the send to this target member is rejected. The message is not eligible to be sent. |
| 8 | (8) | BITSTRING | 1 | | "X'08" '1'B if an AsyncMsgAccess send to this target member was started |
| 10 | (A) | SIGNED | 1 | | Reserved. |
| 11 | (B) | SIGNED | 1 | MQATRSENDRETCODE | Reserved. |
| | | | | | Return code from message-out service (IXCMSGO) with respect to the send to this particular target. |
| 12 | (C) | SIGNED | 4 | MQATRSENDRSNCODE | Valid if MqaToSendRetcode is nonzero. If so, contains failing reason code from message-out service. |
| 16 | (10) | BITSTRING | 4 | MQATRRESPSTATUS (0) | Status of response message |
| 16 | (10) | BITSTRING | 2 | MQATRRESPFLAGS (0) | Status of response. |
| | | 1... | | MQATRRESPEXPECTED | "X'80" '1'B if XCF expected the target member to respond, '0'B if not. |
| | | .1.. | | MQATRRESPRECEIVED | "X'40" '1'B if a response was received by XCF, '0'B if not. |
| | | ..1. | | MQATRRESPAVAILABLE | "X'20" '1'B if the associated response is available, '0'B if not. If the response was received but the associated response is not available, the response was delivered, saved, or discarded. |
| | | ...1 | | MQATRRESPDELIVERED | "X'10" '1'B if some portion of the response was delivered by message-in service, '0'B if none of the response was delivered |
| | | 1... | | MQATRRESPSAVED | "X'08" '1'B if the response was saved with the message control SAVEMSG service. |
| | |1.. | | MQATRRESPDISCARDED | "X'04" '1'B if the response was discarded with the message control DISCARDMSG service. |
| 16 | (10) | BITSTRING | 1 | | Reserved. |
| 18 | (12) | SIGNED | 1 | | Reserved. |
| 19 | (13) | SIGNED | 1 | MQATRRESPCODE | Code to explain why XCF believes the response was not received. See MnplKRespCode constants defined in IXCYNMPL macro. Valid when MnplTrRespReceived is '0'B. |
| 19 | (13) | X'14' | 0 | MQATARGRESPENTRY_LEN | **MQATARGRESPENTRY" |

IXCYMQAA Cross Reference

| Name | Hex Offset | Hex Value |
|-----------------------|------------|-----------|
| MQAENTDATA | 10 | |
| MQAENTLEN | 4 | |
| MQAENTRY | 0 | |
| MQAENTRY_LEN | 10 | 10 |
| MQAENTTYPE | 0 | |
| MQAHDR | 0 | |
| MQAHDR_LEN | C | 10 |
| MQAHDR#ENTRIES | 8 | |
| MQAHDRENTOFFSET | C | |
| MQAHDRLLEN | 0 | |
| MQAHDRTLEN | 4 | |
| MQAKYPEMID | 10 | 4 |
| MQAKYPEMIS | 10 | 2 |
| MQAKYPEMOD | 10 | 3 |
| MQAKYPEMOS | 10 | 1 |
| MQAMIDDELIVERED | 55 | 10 |
| MQAMIDDISCARDPENDING | 55 | 80 |
| MQAMIDFLAGS | 55 | |
| MQAMIDISARESPONSE | 55 | 20 |
| MQAMIDMLEN | 28 | |
| MQAMIDMSGCNTL | 34 | |
| MQAMIDNEEDSRESPONSE | 55 | 40 |
| MQAMIDRESPONSEID | 58 | |
| MQAMIDSAVED | 55 | 8 |
| MQAMIDSOURCE | 2C | |
| MQAMIDTOKEN | 10 | |
| MQAMIDUSERDATA | 20 | |
| MQAMISDELIVERED | 31 | 10 |
| MQAMISDISCARDPENDING | 31 | 80 |
| MQAMISFLAGS | 31 | |
| MQAMISISARESPONSE | 31 | 20 |
| MQAMISNEEDSRESPONSE | 31 | 40 |
| MQAMISSAVED | 31 | 8 |
| MQAMISSOURCE | 28 | |
| MQAMISTOKEN | 10 | |
| MQAMISUSERDATA | 20 | |
| MQAMOD#TARGETS | 58 | |
| MQAMODASYNCSMSGACCESS | 29 | 8 |
| MQAMODBROADCAST | 28 | 80 |
| MQAMODCANCELLED | 28 | 1 |
| MQAMODCOMPLETED | 28 | 4 |
| MQAMODDISCARDPENDING | 29 | 40 |
| MQAMODENTLEN | 66 | |

| Name | Hex Offset | Hex Value |
|------------------------|------------|-----------|
| MQAMODENTTYPE | 65 | |
| MQAMODFLAGS | 28 | |
| MQAMODFLAGS0 | 28 | |
| MQAMODFLAGS1 | 29 | |
| MQAMODFLAGS2 | 2A | |
| MQAMODFLAGS3 | 2B | |
| MQAMODGETRESPONSE | 28 | 40 |
| MQAMODISARESPONSE | 28 | 20 |
| MQAMODKENTTYPETARGONLY | 66 | 1 |
| MQAMODKENTTYPETARGRESP | 66 | 2 |
| MQAMODMLEN | 2C | |
| MQAMODMSGCNTL | 38 | |
| MQAMODNOTIFYBYEXIT | 29 | 80 |
| MQAMODRESPPENDING | 28 | 8 |
| MQAMODSAVED | 29 | 10 |
| MQAMODSENDPENDING | 28 | 10 |
| MQAMODSOURCE | 30 | |
| MQAMODSUCCESSFUL | 29 | 20 |
| MQAMODTBLOFFSET | 60 | |
| MQAMODTIMEDOUT | 28 | 2 |
| MQAMODTOKEN | 10 | |
| MQAMODUSERDATA | 20 | |
| MQAMOSASYNCSMSGACCESS | 29 | 8 |
| MQAMOSBROADCAST | 28 | 80 |
| MQAMOSCANCELLED | 28 | 1 |
| MQAMOSCOMPLETED | 28 | 4 |
| MQAMOSDISCARDPENDING | 29 | 40 |
| MQAMOSFLAGS | 28 | |
| MQAMOSFLAGS0 | 28 | |
| MQAMOSFLAGS1 | 29 | |
| MQAMOSFLAGS2 | 2A | |
| MQAMOSFLAGS3 | 2B | |
| MQAMOSGETRESPONSE | 28 | 40 |
| MQAMOSISARESPONSE | 28 | 20 |
| MQAMOSNOTIFYBYEXIT | 29 | 80 |
| MQAMOSRESPPENDING | 28 | 8 |
| MQAMOSSAVED | 29 | 10 |
| MQAMOSSENDPENDING | 28 | 10 |
| MQAMOSSUCCESSFUL | 29 | 20 |

IXCYMQAA Cross Reference

| Name | Hex Offset | Hex Value |
|-------------------------|---------------|--------------|
| MQAMOSTIMEDOUT | 28 | 2 |
| MQAMOSTOKEN | 10 | |
| MQAMOSUSERDATA | 20 | |
| MQAMSGINDETAIL | 10 | |
| MQAMSGINDETAIL_LEN | 58 | 60 |
| MQAMSGINSUMMARY | 10 | |
| MQAMSGINSUMMARY_LEN | 34 | 24 |
| MQAMSGOUTDETAIL | 10 | |
| MQAMSGOUTDETAIL_LEN | 66 | 58 |
| MQAMSGOUTSUMMARY | 10 | |
| MQAMSGOUTSUMMARY_LEN | 2B | 1C |
| MQATARGONLYENTRY | 0 | |
| MQATARGONLYENTRY_LEN | C | 10 |
| MQATARGRESPENTRY | 0 | |
| MQATARGRESPENTRY_LEN | 13 | 14 |
| MQATOSENDASYNCMSGACCESS | 8 | 8 |
| MQATOSENDFLAGS | 8 | |
| MQATOSENDINITIATED | 8 | 80 |
| MQATOSENDPENDING | 8 | 20 |
| MQATOSENDREJECTED | 8 | 10 |
| MQATOSENDRETCODE | B | |
| MQATOSENDRSNCODE | C | |
| MQATOSENDSKIPPED | 8 | 40 |
| MQATOSENDSTATUS | 8 | |
| MQATOTARGET | 0 | |
| MQATRRESPAVAILABLE | 10 | 20 |
| MQATRRESPCODE | 13 | |
| MQATRRESPDELIVERED | 10 | 10 |
| MQATRRESPDISCARDED | 10 | 4 |
| MQATRRESPEXPECTED | 10 | 80 |
| MQATRRESPFLAGS | 10 | |
| MQATRRESPRECEIVED | 10 | 40 |
| MQATRRESPSAVED | 10 | 8 |
| MQATRRESPSTATUS | | |

| Name | Hex Offset | Hex Value |
|-------------------------|---------------|--------------|
| | 10 | |
| MQATRSENDASYNCMSGACCESS | 8 | 8 |
| MQATRSENDFLAGS | 8 | |
| MQATRSENDINITIATED | 8 | 80 |
| MQATRSENDPENDING | 8 | 20 |
| MQATRSENDREJECTED | 8 | 10 |
| MQATRSENDRETCODE | B | |
| MQATRSENDRSNCODE | C | |
| MQATRSENDSKIPPED | 8 | 40 |
| MQATRSENDSTATUS | 8 | |
| MQATRRTARGET | 0 | |

IXCYMSGC Programming Interface information

Programming Interface information

IXCYMSGC

End of Programming Interface information

IXCYMSGC Heading Information

Common Name: Constants for users of the IXCMSGC service
Macro ID: IXCYMSGC
DSECT Name: N/A
Owning Component: Cross System Coupling Services (SCXCF)
Eye-Catcher ID: None
Storage Attributes: Main Storage: N/A
Size: 0 bytes
Created by: N/A
Pointed to by: N/A
Serialization: None
Function: Provides a list of constants for users of IXCMSGC

IXCYMSGC Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|------------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | | |
|  |  | .... .... |  | IXCMSGCRCSUCCESSFUL | "X'00000000" Meaning: Successful completion Action: None |
| | |1.. | | IXCMSGCRCWARNING | "X'00000004" Meaning: Warning, reason code in R0 Action: See reason code |
| | | 1... | | IXCMSGCRGINVALIDPARMS | "X'00000008" Meaning: Invalid parameters, reason code in R0 Action: See reason code |
| | | 11.. | | IXCMSGCRCEENVIRONMENTALERROR | "X'0000000C" Meaning: The current environment cause the request to fail. Action: See reason code |
| | | ...1 | | IXCMSGCRCSYSTEMERROR | "X'00000010" Meaning: System error. XCF processing failure. Action: Save the reason code information, and contact the IBM support center. |
| 0 | (0) | BITSTRING | 0 | IXCMSGCRSNCODEMASK | "X'0000FFFF" Use this mask to isolate the non component-diagnostic portion of the reason code. |
| | |1.. | | IXCMSGCRSNANSAREATOOSMALL | "X'00000004" Meaning: The query request completed successfully. The ANSAREA provided was large enough to contain the header information (MqaHeader), but was not large enough to contain all the data that was requested. The MqaHdrTlen field indicates the total length of the output answer area that would have been needed to contain all the requested information. It is possible that only the MqaHeader was provided in which case MqaHdr#Entries would be zero. Action: Retry the request with an ANSAREA whose length is greater than or equal to the number of bytes indicated by MqaHdrTlen. Note that the amount of data to be returned can change dynamically, so that the length indicated by MqaHdrTlen may be too small for all the data when the request is tried again. |
| | | 1... | | IXCMSGCRSNMSGALREADYCOMPLETE | "X'00000008" Meaning: Message already completed. Action: None, Message COMPLETION requested for a message that was already completed. |
| | | ...1 1... | | IXCMSGCRSNMSGDISCARDPENDING | "X'00000018" Meaning: Message discard pending. An exit routine is currently processing the message. The message will be deleted as soon as the currently active message service (such as IXCMSGI) completes. Action: None, the message is not available |
| | |1.. | | IXCMSGCRSNMEMBERNOTACTIVE | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|-----------------------------------|---|
| Dec | Hex | | | | |
| | | ...1 .11. | | IXCMGCRSNINAPPROEXITROUTINENAME | "X'00000004" Meaning: Member token does not identify an active member associated with the primary address space current when the Message-Control service was invoked. Action: Reissue the request with a correct member token. |
| | | .1.. | | IXCMGCRSNRESERVEDFIELDNOTNULL | "X'00000016" Meaning: Inappropriate exit routine type. Action: The type of exit specified for a CALLEXIT request must be appropriate for the type of message to be processed. Messages saved by a message exit routine and responses saved by a notify exit routine must be processed by a message exit routine. A completed message-out request, or a saved message/response entity must be processed by a notify exit routine. Retry the request with the correct exit routine. |
| 0 | (0) | BITSTRING | 0 | IXCMGCRSNBADPLISTALET | "X'00000040" Meaning: Program error A reserved field in the control parameter list is not zero. Action: Check to see if your program inadvertently overlaid the parameter list storage, and that it was assembled with the correct macro library for the release of MVS your program is running on. |
| 0 | (0) | BITSTRING | 0 | IXCMGCRSNBADPLISTVERSION | "X'00000100" Meaning: Program error. Your program is not running in primary ASC mode, and the ALET that qualifies the address of the control parameter list is neither zero nor associated with a valid public entry on the DU-AL or in a common area data space Action: Ensure that: Your program is not intended to run in primary ASC mode, You specified SYSSTATE ASCENV=AR before issuing the IXCYMSGC macro, and the ALET for the parameter list is a valid public entry on the DU-AL ,is zero (primary address space ALET) or in a common area data space. |
| 0 | (0) | BITSTRING | 0 | IXCMGCRSNBADPLISTFUNCCODE | "X'00000104" Meaning: Parameter list not valid. Version number in parameter list is not valid. The release level of XCF on which the caller is running does not support this version of the message control service. Action: Retry the request with the correct version. |
| 0 | (0) | BITSTRING | 0 | IXCMGCRSNBADPLISTFUNCTIONCODE | "X'00000108" Meaning: Parameter list not valid. Function code not valid. Action: Retry the request |
| 0 | (0) | BITSTRING | 0 | IXCMGCRSNBADPLISTADDRESS | "X'0000010C" Meaning: Parameter list not accessible. storage is not addressable. Action: Make sure the parameter list is accessible to XCF and retry the request. |
| 0 | (0) | BITSTRING | 0 | IXCMGCRSNNOTENABLED | "X'00000110" Meaning: The caller is not enabled. Action: Correct your program so that it does not issue IXCYMSGC while it is disabled. |
| 0 | (0) | BITSTRING | 0 | IXCMGCRSNLOCKSHELD | "X'00000114" Meaning: The caller is holding a lock. Action: Correct your program so that it does not issue IXCYMSGC while holding any locks. |
| 0 | (0) | BITSTRING | 0 | IXCMGCRSNANSAREASMALLERTHANHEADER | "X'00000118" Meaning: ANSAREA too small. Action: The answer area must be at least as long as the header record (MqaHeader). Retry the request with a larger answer area. |
| 0 | (0) | BITSTRING | 0 | IXCMGCRSNANSAREABADALET | "X'0000011C" Meaning: ANSAREA not accessible. Action: The ALET of the ANSAREA is neither zero nor a valid entry on the Dispatchable Unit Access List (DU-AL), nor a valid entry for a common area data space. Retry the request with the correct ALET. |
| 0 | (0) | BITSTRING | 0 | IXCMGCRSNANSAREABADADDRESS | |

IXCYMSGC Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|--------------------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IXCMSCGRSNTOKENNOTFORSAVEMSG | "X'00000148" Meaning: Error accessing ANSAREA. Action: Make sure the ANSAREA is accessible to XCF, and reissue the request. |
| 0 | (0) | BITSTRING | 0 | IXCMSCGRSNTOKENNOTFORDISCARDMSG | "X'00000200" Meaning: TOKEN not valid for SAVEMSG service. Action: Verify that the token specified is the MsgIToken provided to the message exit or notify exit and retry the request with the correct Token. |
| 0 | (0) | BITSTRING | 0 | IXCMSCGRSNTOKENFORCALLEXITINVALID | "X'00000204" Meaning: TOKEN not valid for DISCARDMSG service. Action: Retry the request with the correct Token. |
| 0 | (0) | BITSTRING | 0 | IXCMSCGRSNMESSAGEUNAVAILABLE | "X'00000208" Meaning: TOKEN not valid for CALLEXIT service. CALLEXIT can be only be used for messages that were saved by a Notify or Message Exit via the SAVEMSG service. The TOKEN must be a RETMSGTOKEN that was returned by the SAVEMSG service. Action: Insure that that the token is one that was returned by a successful invocation of the SAVEMSG service. |
| 0 | (0) | BITSTRING | 0 | IXCMSCGRSNMESSAGETOKENINVALID | "X'0000020C" Meaning: Message not available. Message indicated by TOKEN does not exist. Message was either completely delivered, discarded, or saved. Action: Verify the token, if mis-specified reissue the request with a new correct TOKEN. For a RETMSGTOKEN or a saved token (RETMSGTOKEN), insure that the MEMTOKEN identifies the member who was presented the token by XCF. If the message was saved, then a new message would be assigned and the RETMSGTOKEN returned by IXCMSCG would have to be used. If the token is for a response and the associated message/response entity was saved or discarded, then the old response tokens are invalidated. |
| 0 | (0) | BITSTRING | 0 | IXCMSCGRSNTOKENNOTFORFORCECOMPLETION | "X'00000210" Meaning: TOKEN not valid. Action: Verify the token an retry the request with the correct Token. |
| 0 | (0) | BITSTRING | 0 | IXCMSCGRSNBADRETMSGTOKENALET | "X'00000220" MEANING: Message Token not valid for Force Completion. The Message Token must be a token that was returned by the IXCMSCG service via the RETMSGTOKEN keyword. Action: Verify the token and retry the request with the correct Token |
| 0 | (0) | BITSTRING | 0 | IXCMSCGRSNBADRETMSGTOKENADDRESS | "X'00000308" Meaning: The ALET that qualifies the address of the RETMSGTOKEN is neither zero nor a valid entry on the Dispatchable Unit Access List (DU-AL), nor a valid entry for a common area data space. Action: Retry the request with the correct ALET |
| 0 | (0) | BITSTRING | 0 | IXCMSCGRSNBADEXITFORCALLEXIT | "X'00000309" Meaning: RETMSGTOKEN not accessible. The Message Control Service was not able to store a message token in the storage area indicated by RETMSGTOKEN. Action: The message would have already been saved and a new message token assigned. As such, the only way to get the new MESSAGE token is to do an IXCMSCG query looking for UDATA that matched the one specified. @L3C |
| 0 | (0) | BITSTRING | 0 | IXCMSCGRSNBADEXITFORCALLEXIT | "X'0000030A" Meaning: For a CALLEXIT request, XCF attempted to call the exit but the message or notify exit abended. The exit address could be invalid or the exit may have done some processing. The specified message may have been processed by the exit routine before it abended. As such, the token may or may not specify a currently valid message. Action: Verify the exit address and attempt the CallExit request again. |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|-----------------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IXCMSGCRSNTASKMODECALLEXITWITHFRR | "X'0000030E" Meaning: For a CALLEXIT request that was made in Task mode, the caller had an FRR established. Action: Correct your program so that it does not issue IXCMSGC Request(CALLEXIT) with FRRs established while in Task mode. |
| 0 | (0) | BITSTRING | 0 | IXCMSGCRSNMSGNOTAVAILOTHEREXIT | "X'00000C04" Meaning: Message not available. Action: Another exit routine is currently processing the message. Try again later. |
| 0 | (0) | BITSTRING | 0 | IXCMSGCRSNNOUSERMSGSPACEAVAIL | "X'00000C08" Meaning: No user message space available. All the message storage space managed by XCF on behalf of the member are full. Action: Use the Message Control DISCARDMSG Service to discard one or more messages in order to make more storage available. |
| 0 | (0) | BITSTRING | 0 | IXCMSGCRSNDUALCANNOTBEEXPANDED | "X'00000C0C" Meaning: Unable to process a CALLEXIT, QUERYMSG, or COMPLETION request. A STOKEN that is required to be added to the current DUAL (Dispatchable Unit Access List) could not be added due to the DUAL being full or not expandable. Action: Try again later or remove an entry from the DUAL and try again. |
| 0 | (0) | BITSTRING | 0 | IXCMSGCRSNNOWORKINGSTORAGE | "X'00000C10" Meaning: A IXCMSGC QUERY request could not be performed because XCF could not obtain working storage in the XCF address space. Action: Try again later |
| 0 | (0) | BITSTRING | 0 | IXCMSGCRSNTOKENNOTFORQUERYMSG | "X'00000C14" Meaning: TOKEN not valid for QUERYMSG service. Action: Retry the request with the correct Token. |
| 0 | (0) | BITSTRING | 0 | IXCMSGCRSNMESSAGEPENDING | "X'00000C18" Meaning: The message is not complete. Invoke the IXCMSGC CALLEXIT service after the message has completed |

IXCYMSGC Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|------------------------------------|------------|-----------|-----------------------------------|------------|-----------|
| IXCMSGCRSENVIRONMENTALERROR | 0 | C | IXCMSGCRSNBADRETMSGTOKENADDRESS | 0 | 104 |
| IXCMSGCRSCINVALIDPARMS | 0 | 8 | IXCMSGCRSNBADRETMSGTOKENALET | 0 | 309 |
| IXCMSGCRCSUCCESSFUL | 0 | 0 | IXCMSGCRSNCODEMASK | 0 | 308 |
| IXCMSGCRCSYSTEMERROR | 0 | 10 | IXCMSGCRSNDUALCANNOTBEEXPANDED | 0 | FFFF |
| IXCMSGCRCWARNING | 0 | 4 | IXCMSGCRSNINAPPROPEXITROUTINENAME | 0 | C0C |
| IXCMSGCRSNANSAREABADADDRESS | 0 | 148 | IXCMSGCRSNLOCKSHIELD | 0 | 16 |
| IXCMSGCRSNANSAREABADALET | 0 | 140 | IXCMSGCRSNMEMBERNOTACTIVE | 0 | 12C |
| IXCMSGCRSNANSAREASMALLERTHANHEADER | 0 | 13C | IXCMSGCRSNMESSAGEPENDING | 0 | 4 |
| IXCMSGCRSNANSAREATOOSMALL | 0 | 4 | IXCMSGCRSNMESSAGETOKENINVALID | 0 | C18 |
| IXCMSGCRSNBADEXITFORCALLEXIT | 0 | 30A | IXCMSGCRSNMESSAGEUNAVAILABLE | 0 | 210 |
| IXCMSGCRSNBADPLISTADDRESS | 0 | 10C | IXCMSGCRSNMSGALREADYCOMPLETE | 0 | 20C |
| IXCMSGCRSNBADPLISTALET | 0 | 100 | IXCMSGCRSNMSGDISCARDPENDING | 0 | 8 |
| IXCMSGCRSNBADPLISTFUNCCODE | 0 | 108 | IXCMSGCRSNMSGNOTAVAILOTHEREXIT | 0 | 18 |
| IXCMSGCRSNBADPLISTVERSION | | | | 0 | C04 |

IXCYMSGC Cross Reference

| Name | Hex Offset | Hex Value |
|--------------------------------------|---------------|--------------|
| IXCMSGCRSNNOTENABLED | 0 | 11C |
| IXCMSGCRSNNOUSERMSGSPACEAVAIL | 0 | C08 |
| IXCMSGCRSNNOWORKINGSTORAGE | 0 | C10 |
| IXCMSGCRSNRESERVEDFIELDNOTNULL | 0 | 40 |
| IXCMSGCRSNTASKMODECALLEXITWITHFRR | 0 | 30E |
| IXCMSGCRSNTOKENFORCALLEXITINVALID | 0 | 208 |
| IXCMSGCRSNTOKENNOTFORDISCARDMSG | 0 | 204 |
| IXCMSGCRSNTOKENNOTFORFORCECOMPLETION | 0 | 220 |
| IXCMSGCRSNTOKENNOTFORQUERYMSG | 0 | C14 |
| IXCMSGCRSNTOKENNOTFORSAVEMSG | 0 | 200 |

IXCYQUAA Programming Interface information

Programming Interface information

IXCYQUAA

End of Programming Interface information

IXCYQUAA Heading Information

Common Name: Query Answer Area
Macro ID: IXCYQUAA
DSECT Name: QUAHDR QUASYS/QUASYS1 QUAGRP QUAMEM QUACF/QUACF1
 QUACFSC/QUACFSC1 QUACFSTR/QUACFSTR1 QUASTR/QUASTR1
 QUASTRPL/QUASTRPL1 QUASTRXL/QUASTRXL1 QUASTRCF/QUASTRCF1
 QUASTRUSER/QUASTRUSER1 QUASTRSYS QUAARMS QUREQFEATURES
Owning Component: Cross System Coupling Facility (SCXCF)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: User-supplied
 Key: User-supplied
 Residency: User-supplied
Size: Variable
 Header -- 16 bytes
 For general or specific query of the system:
 QUASYS -- 40 bytes
 For general or specific query of the system:
 with QUAALEVEL=1 requested:
 QUASYS1 -- 64 bytes
 Group record -- 20 bytes
 Member record -- 92 bytes + maximum of 32
 for user state field
 For general or specific query of coupling facility:
 QUACF record -- x'00A0' bytes
 QUACFSC record -- x'0010' bytes
 QUACFSTR record -- x'0018' bytes
 For general or specific query of coupling facility
 with QUAALEVEL=1 requested:
 QUACF1 record -- x'00E0' bytes
 QUACFSC1 record -- x'0050' bytes
 QUACFSTR1 record -- x'0098' bytes
 For general or specific query of structure:
 QUASTR record -- x'0138' bytes
 QUASTRPL record -- x'0010' bytes
 QUASTRXL record -- x'0018' bytes
 QUASTRCF record -- x'0048' bytes
 QUASTRUSER record -- x'0088' bytes
 QUASTRSYS record -- x'0040' bytes
 For general or specific query of structure
 with QUAALEVEL=1 requested:
 QUASTR1 record -- x'01B8' bytes
 QUASTRPL1 record -- x'0030' bytes
 QUASTRXL1 record -- x'0038' bytes
 QUASTRCF1 record -- x'0088' bytes
 QUASTRUSER1 record -- x'0100' bytes
 For general or specific query of Automatic Restart Manager
 QUAARMS record - 256 bytes
 For query of installed Software Features
 QUREQFEATURES -- 32 bytes

Created by: Created by user and passed as parameter on ANSAREA keyword for IXCQUERY, IXCCREAT or IXCJOIN macros. The IXCJOIN and IXCCREAT macros only return the QUAMEM record.

Pointed to by: Created by user and passed as parameter on FEATAREA keyword for IXCQUERY macro with REQINFO=FEATURES option

Serialization: ANSAREA_ADDR field in Query or Join/Create parameter list

Function: QUREQFEATURES is not pointed to, outside of macro execution

None required

Maps the data returned by the IXCQUERY, IXCCREAT, or IXCJOIN macros.

This data represents a snapshot of a point in time.

The IXCQUERY macro always returns the QUAHDR plus the record mapping for the associated request.

The IXCJOIN and IXCCREAT macros only return the QUAMEM record.

IXCYQUAA Map

| Offsets | | | | | |
|---------|-----|------------|-----|------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | QUAHDR | |
| 0 | (0) | SIGNED | 4 | QUAH#REC | Number of QUASYS, QUAGRP, QUAMEM, QUACF, QUASTR, or QUAARMS records which follow Note: this field is zero with zero return code, when the service could not find any records. |
| 4 | (4) | SIGNED | 4 | QUAH#REM | Number of QUASYS, QUAGRP, QUAMEM, QUACF, QUASTR, or QUAARMS records which were not returned because of insufficient space |
| 8 | (8) | SIGNED | 4 | QUAHTLEN | Total length of answer area needed to contain all the requested information. This includes the area for the records that were returned on this call. |
| 12 | (C) | SIGNED | 4 | QUAHSGOF | Offset from QUAHDR to the first data record |
| 12 | (C) | X'10' | 0 | QUAHLENG | **-QUAHDR" |

| Offsets | | | | | |
|---------|------|------------|-----|---------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | QUASYS | |
| 0 | (0) | BITSTRING | 1 | QUASTYPE | X'02' sysplex record, X'82' last sysplex record |
| 0 | (0) | X'2' | 0 | QUATPSYS | "2" Record type - Sysplex (QUASYS) |
| 0 | (0) | X'82' | 0 | QUATPSYS_LAST | "130" Record type - Last Sysplex |
| 1 | (1) | BITSTRING | 1 | | Reserved X'00' |
| 2 | (2) | SIGNED | 2 | QUASLEN | Length of sysplex record |
| 4 | (4) | CHARACTER | 8 | QUASNAME | System name |
| 12 | (C) | SIGNED | 4 | QUASINTV | Monitor interval, in hundredths of seconds. This parameter is specified at IPL time. |
| 16 | (10) | SIGNED | 4 | QUASOPIN | Operator interval, in hundredths of seconds. This parameter is specified at IPL time. |
| 20 | (14) | BITSTRING | 8 | QUASSUTO | Status-update TOD value |
| 28 | (1C) | BITSTRING | 4 | QUASSTAT | System Status |

Comment

EQU X'80' Reserved

End of Comment

| | | | | |
|----|-----------|-----------|---|---|
| | .1.. | QUASACTV | | "X'40" Active |
| | ..1. | QUASSUM | | "X'20" Status-update missing detected |
| | ...1 | QUASSYPT | | "X'10" In sysplex partitioning |
| | 1.. | QUASLOCL | | "X'08" Single system, no coupling dataset, sysplex |
| |1.. | QUASCLUP | | "X'04" System has completed Sysplex Partitioning but is still in the process of Cleanup |
| 32 | (20) | BITSTRING | 4 | QUASSID (0) System token |

IXCYQUAA Map

| Offsets | | | | | |
|---------|------|------------|-----|------------|--------------------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 32 | (20) | BITSTRING | 1 | QUASNUM | System slot number |
| 33 | (21) | BITSTRING | 3 | | Reserved - do not use |
| 36 | (24) | BITSTRING | 1 | QUASVER | System version number |
| 37 | (25) | CHARACTER | 2 | QUASCLID | System Clone ID |
| 39 | (27) | BITSTRING | 1 | QUASCLST | System Clone ID status |
| | | 1... | | QUASCLNU | "X'80" Clone ID uniqueness bit |
| 39 | (27) | X'28' | 0 | QUASLENG | ** -QUASYS" |

| Offsets | | | | | |
|---------|------|------------|-----|---------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | QUASYS1 | Sysplex record data format for QUAA level 1 |
| 0 | (0) | CHARACTER | 40 | | Mapped by QuaSys |
| 40 | (28) | BITSTRING | 1 | QUASFLAGS (0) | Flag bits |
| | |1 | | QUASLPAR | "X'01" 1 = system is a LPAR PR/SM system and is not running under VM. QuaaLparNum contains valid data. 0 = system is not a LPAR PR/SM system or is running under VM and any data in QuaaLparNum is not valid. |
| 41 | (29) | SIGNED | 1 | QUASLPARNUM | LPAR number of the system within the CPC. Only valid when QuasLpar is on |
| 42 | (2A) | CHARACTER | 4 | QUASCPUID (0) | CPUID of the CPC |
| 42 | (2A) | CHARACTER | 2 | QUASSERIALNUM | Serial number of the CPC |
| 44 | (2C) | CHARACTER | 2 | QUASMODELNUM | Model number of the CPC |
| 46 | (2E) | CHARACTER | 18 | | Reserved |
| 46 | (2E) | X'40' | 0 | QUASYS1_LEN | ** -QUASYS1" |

| Offsets | | | | | |
|---------|------|------------|-----|----------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | QUAGRP | |
| 0 | (0) | BITSTRING | 1 | QUAGTYPE | X'00' group record, X'80' last group record |
| 0 | (0) | X'0' | 0 | QUATYPGRP | "0" Record type - Group (QUAGRP) |
| 0 | (0) | X'80' | 0 | QUATYPGRP_LAST | "128" Record type - Last Group |
| 1 | (1) | BITSTRING | 1 | | Reserved X'00' |
| 2 | (2) | SIGNED | 2 | QUAGLEN | Length of group record |
| 4 | (4) | CHARACTER | 8 | QUAGNAME | Group name |
| 12 | (C) | SIGNED | 4 | QUAG#MEM | Number of members in the group |
| 16 | (10) | CHARACTER | 1 | QUAGFLAG1 (0) | |
| | | 1... | | QUAGSTALLED | "X'80" Indicates whether XCF considers any members of the group to be stalled with respect to the XCF processing that they perform. The condition is recognized only for members active on the system where the IXCQUERY is executed. Equals '0'B if no such member is considered stalled, '1'B if at least one such member is considered stalled. A member is considered stalled, for example, if its message exit routine does not return to XCF in a timely fashion. |
| 17 | (11) | CHARACTER | 3 | | Reserved. |
| 17 | (11) | X'14' | 0 | QUAGLENG | ** -QUAGRP" |

| Offsets | | | | | |
|---------|-----|------------|-----|----------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | QUAMEM | |
| 0 | (0) | BITSTRING | 1 | QUAMTYPE | X'01' member record, X'81' last member record |
| 0 | (0) | X'1' | 0 | QUATYPMEM | "1" Record type - Member (QUAMEM) |
| 0 | (0) | X'81' | 0 | QUATYPMEM_LAST | "129" Record type - Last Member |
| 1 | (1) | BITSTRING | 1 | | Reserved X'00' |
| 2 | (2) | SIGNED | 2 | QUAMLEN | Length of member record (includes User State Field length) |
| 4 | (4) | CHARACTER | 16 | QUAMNAME | Member name |

| Offsets | | | | | |
|---------|------|------------|-----|-------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 20 | (14) | BITSTRING | 8 | QUAMTOKN | Member token |
| 28 | (1C) | BITSTRING | 4 | QUAMSTAT (0) | Group services state |
| 28 | (1C) | BITSTRING | 1 | QUAMSTA1 | Member State |
| 28 | (1C) | X'2' | 0 | QUAMSCRE | "2" Member State = CREATED |
| 28 | (1C) | X'3' | 0 | QUAMSACT | "3" Member State = ACTIVE |
| 28 | (1C) | X'4' | 0 | QUAMSQUI | "4" Member State = QUIESCED |
| 28 | (1C) | X'5' | 0 | QUAMSFLD | "5" Member State = FAILED |
| 29 | (1D) | BITSTRING | 1 | QUAMSTA2 | Additional Status Information |
| 29 | (1D) | X'80' | 0 | QUAMSSSM | "128" System Status Update Missing |
| 29 | (1D) | X'40' | 0 | QUAMSTRM | "64" System Going - System termination started |
| 29 | (1D) | X'10' | 0 | QUAMSMMS | "16" Member Stat Update Missing - Confirmed by Member Status Exit. Check QUAMUDAT value |
| 29 | (1D) | X'8' | 0 | QUAMMSMD | "8" Member Status Update Missing Detected - Member Status Exit never ran Reserved QUAMSPAU (was EQU 4) |
| 29 | (1D) | X'2' | 0 | QUAMMREM | "2" Monitoring has been removed for this member |
| 30 | (1E) | BITSTRING | 1 | QUAMSTA3 (0) | Additional status data |
| | | 1... | | QUAMSTALLED | "X'80" Indicates whether XCF considers this group member to be stalled with respect to the XCF processing that it performs. The condition is recognized only for members active on the system where the IXCQUERY is executed. Equals '0'B if member is not considered stalled, '1'B if the member is considered stalled. A member is considered stalled, for example, if its message exit routine does not return to XCF in a timely fashion. |
| 31 | (1F) | BITSTRING | 1 | | Reserved and set to 0 |
| 32 | (20) | CHARACTER | 8 | QUAMSYS | System name that member was last active on |
| 40 | (28) | BITSTRING | 4 | QUAMSID (0) | System token for system on which member was last active |
| 40 | (28) | BITSTRING | 1 | QUAMSNM | System slot number |
| 41 | (29) | BITSTRING | 3 | | Reserved - do not use |
| 44 | (2C) | CHARACTER | 8 | QUAMJOB | Job, STC, MOUNT, or LOGON name from the primary ASID current at JOIN time |
| 52 | (34) | BITSTRING | 8 | QUAMTOD | Time stamp of last change to member status |
| 60 | (3C) | SIGNED | 4 | QUAMUSLN | Length of User State Field, set by JOIN or CREATE |
| 64 | (40) | SIGNED | 4 | QUAMUSOF | Offset from QUAMEM of user state field. The user state field can be addressed by ADDR(QUAMEM)+QUAMUSOF. For IXCQUERY, the area used by QUAMEM must allow for the maximum size of 32-bytes of the user state field. For IXCJOIN or IXCCREAT, the area used by QUAMEM only needs to allow for the size of the user state field as specified on the IXCJOIN or IXCCREAT macro. QUAMUSLN contains the length of the user state field established by the IXCJOIN or IXCCREAT macro. |
| 68 | (44) | SIGNED | 4 | QUAMINTV | Interval specified by IXCJOIN. Could be changed through IXCMOD. |
| 72 | (48) | SIGNED | 4 | QUAMUDAT | User data returned from member status exit. Contains user data from Member Status Update Missing confirmation if QUAMSMMS is on. Contains user data from Member Status Update Resumed confirmation if QUAMSMMS is off and user data is not zero. If zero and QUAMSMMS is off, then it is unclear if the status exit returned a zero user data value. Invalid if QUAMMREM or QUAMMSMD is on. |
| 76 | (4C) | CHARACTER | 8 | QUAMSTKN | Member Stoken |
| 84 | (54) | BITSTRING | 4 | QUAMPROTOCOLS (0) | Protocols that are supported for the member. Individual flags are '1'B if the protocol is supported, '0'B if not. |
| | | 1... | | QUAMPROCANRECEIVE | "X'80" The member supplied a MSGEXIT routine when it invoked IXCJOIN to join its group. The member is capable of receiving messages. |
| | | .1.. | | QUAMPROCANREPLY | |

IXCYQUAA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|---------------------------|--|
| Dec | Hex | | | | |
| | | ..1. | | QUAMPRORESPONSECOLLECTION | "X'40" The member specified YES for CANREPLY keyword when it invoked IXCJOIN to join its group. The member claims to be able to participate in the XCF managed response collection protocol. |
| | | ...1 | | QUAMPROORDEREDEDELIVERY | "X'20" The system on which the member resides supports XCF managed response collection. |
| | | 1... | | QUAMPROGT61KDELIVERY | "X'10" The system on which the member resides supports ordered message delivery. |
| | |1.. | | QUAMPROGT61KMSG | "X'08" The system on which the member resides supports delivery of messages <= 128M bytes in length |
| 84 | (54) | BITSTRING | 3 | | "X'04" The member specified YES for the GT61KMSG keyword when it invoked IXCJOIN to join its group. The member claims to be able to receive messages <= 128 megabytes in length |
| 88 | (58) | CHARACTER | 4 | | Reserved. |
| 88 | (58) | X'5C' | 0 | QUAMLENG | Reserved |
| | | | | | "*-QUAMEM" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-------------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | QUACF | |
| 0 | (0) | BITSTRING | 1 | QUACFTYP | X'10' coupling facility record, X'90' Last coupling facility record |
| 0 | (0) | X'10' | 0 | QUATYPCF | "16" Record type - coupling facility (QUACF) |
| 0 | (0) | X'90' | 0 | QUATYPCF_LAST | |
| 1 | (1) | BITSTRING | 1 | | "144" Record type - Last coupling facility |
| 2 | (2) | SIGNED | 2 | QUACFLEN | Reserved X'00' |
| 4 | (4) | CHARACTER | 8 | QUACFNAME | Length of record |
| 12 | (C) | CHARACTER | 32 | QUACFND (0) | Name of coupling facility |
| 12 | (C) | BITSTRING | 4 | | Node descriptor of coupling facility IXLYNDE maps this field. |
| 16 | (10) | CHARACTER | 26 | QUACFID | See IXLYNDE |
| 42 | (2A) | BITSTRING | 2 | | EBCDIC portion of ND. See IXLYNDE |
| 44 | (2C) | SIGNED | 4 | QUACFDUMPSIZE | See IXLYNDE |
| | | | | | Size of dump space as specified in CFRM active policy (number in multiple of 4K bytes) |
| 48 | (30) | BITSTRING | 4 | QUACFSTATE (0) | State of coupling facility |
| 48 | (30) | BITSTRING | 1 | QUACFSTATE1 | 1st byte of state indicators |
| | | 1... | | QUACFSTDPEND | "X'80" Policy change pending which will delete this coupling facility from the CFRM active policy when all allocated structures are gone from this coupling facility |
| 49 | (31) | BITSTRING | 1 | QUACFSTATE2 | 2nd byte of state indicators |
| | | 1... | | QUACFSTRECONCILE | "X'80" The coupling facility to CFRM policy reconcile process is in progress. When this bit is on IXLCONN to structures in this coupling facility are not permitted. |
| | | .1.. | | QUACFSTFAILED | "X'40" The coupling facility has failed. When this bit is on IXLCONN to structures in this coupling facility are not permitted. |
| 50 | (32) | BITSTRING | 1 | QUACFSTATE3 | 3rd byte of state indicators |
| | | 1... | | QUACFSTPOPULATECFTARGET | "X'80" A PopulateCF rebuild request is currently in progress for this facility. |
| 51 | (33) | BITSTRING | 1 | QUACFSTATE4 | 4th byte of state indicators |
| 52 | (34) | SIGNED | 4 | QUACFSTREXTRA | Number of structures in this coupling facility which cannot be added to the policy |
| 56 | (38) | CHARACTER | 8 | QUACFRSVD | Reserved |

| Offsets | | | | | |
|---------|------|------------|-----|----------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 64 | (40) | SIGNED | 4 | QUACFSC# | Number of records for systems connected to specified coupling facility (QUACFSC) |
| 68 | (44) | SIGNED | 4 | QUACFSCO | Offset from QUACF to QUACFSC records |
| 72 | (48) | SIGNED | 4 | QUACFSTR# | Number of records for structures in specified coupling facility (QUACFSTR) |
| 76 | (4C) | SIGNED | 4 | QUACFSTRO | Offset from QUACF to QUACFSTR records |
| 80 | (50) | CHARACTER | 40 | QUACFTEXT (0) | CFRM active policy data |
| 80 | (50) | CHARACTER | 8 | QUACFPOLNAME | Policy name. If SETXCF STOP,POLICY,TYPE=CFRM has been issued then the name will be blanks. |
| 88 | (58) | CHARACTER | 8 | QUACFUPDTIME | Time policy was last updated by the installation prior to this policy being activated. If SETXCF STOP,POLICY,TYPE=CFRM has been issued then the time will be the same time as QUACFSETTIME. |
| 96 | (60) | CHARACTER | 8 | QUACFSETTIME | Time policy was activated via operator command. |
| 104 | (68) | SIGNED | 4 | QUACFREQ#STR | If non-zero value, indicates that the policy is not formatted to contain the maximum number of structure records and is not large enough to contain all the structures that exist in facilities represented in the policy. Value should be used as input to format a couple data set for TYPE CFRM. |
| 108 | (6C) | SIGNED | 2 | QUACFREQ#CONN | If non-zero value indicates that the policy is not large enough to contain all the connections that exist for structures represented in the policy. Value should be used as input to format a couple data set for TYPE CFRM. |
| 110 | (6E) | CHARACTER | 6 | QUACFEXTRA#STR | Reserved part of QUACFTEXT |
| 116 | (74) | SIGNED | 4 | | If non-zero value, indicates that the policy is formatted with the maximum number of structure records (or a recommendation was made to do so - if non-zero QuaCfReq#Str field) and represents the number of structures that must be removed from the policy to contain all the structures that exist in coupling facilities represented in the policy. |
| 120 | (78) | CHARACTER | 40 | QUACFRSVD2 | Reserved |
| 120 | (78) | X'AO' | 0 | QUACFLENG | **-QUACF" |

| Offsets | | | | | |
|---------|------|------------|-----|------------|-----------------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | QUACF1 | Mapped by QUACF Reserved |
| 0 | (0) | CHARACTER | 160 | | |
| 160 | (A0) | CHARACTER | 64 | | |
| 160 | (A0) | X'E0' | 0 | QUACF1_LEN | **-QUACF1" |

| Offsets | | | | | |
|---------|-----|------------|-----|-----------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | QUACFSC | X'11' System connected to coupling facility record, X'91' Last System connected to coupling facility record. "17" Record type - Systems connected to specified coupling facility (QUACFSC) |
| 0 | (0) | BITSTRING | 1 | QUACFSCTYP | |
| 0 | (0) | X'11' | 0 | QUATYPCFSC | |
| 0 | (0) | X'91' | 0 | QUATYPCFSC_LAST | |
| | | | | | "145" Record type - Last system connected to specified coupling facility |
| 1 | (1) | BITSTRING | 1 | | Reserved X'00' |
| 2 | (2) | SIGNED | 2 | QUACFSCLLEN | Length of record |
| 4 | (4) | CHARACTER | 8 | QUACFSCNAME | Name of System connected to specified coupling facility |
| 12 | (C) | CHARACTER | 4 | QUACFS CRSVD | Reserved |
| 12 | (C) | X'10' | 0 | QUACFSCLLENG | **-QUACFSC" |

IXCYQUAA Map

| Offsets | | | | | |
|---------|------|------------|-----|--------------|-------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | QUACFSC1 | |
| 0 | (0) | CHARACTER | 16 | | Mapped by QUACFSC |
| 16 | (10) | CHARACTER | 64 | | Reserved |
| 16 | (10) | X'50' | 0 | QUACFSC1_LEN | **-QUACFSC1" |

| Offsets | | | | | |
|---------|------|------------|-----|----------------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | QUACFSTR | |
| 0 | (0) | BITSTRING | 1 | QUACFSTRTYP | X'12' Structures in coupling facility record, X'92' Last structure in coupling facility record. |
| 0 | (0) | X'12' | 0 | QUATYPCFSTR | "18" Record type - Structures in specified coupling facility (QUACFSTR) |
| 0 | (0) | X'92' | 0 | QUATYPCFSTR_LAST | "146" Record type - Last structure in specified coupling facility |
| 1 | (1) | BITSTRING | 1 | | Reserved X'00' |
| 2 | (2) | SIGNED | 2 | QUACFSTRLEN | Length of record |
| 4 | (4) | CHARACTER | 16 | QUACFSTRNAME | Name of structure |
| 20 | (14) | BITSTRING | 1 | QUACFSTRFLG | Structure allocation status |
| | | 1... | | QUACFSTRACT | "X'80" ON->Only 1 structure is allocated with this structure name. Not part of a rebuild pair. OFF->2 structures are allocated with this name. See QuaCFStrRebldNew and QuaCFStrRebldOld to determine if this record represents either the rebuild new or rebuild old old structure. |
| | | .1.. | | QUACFSTRREBLDOLD | "X'40" Rebuild/old. If structure rebuild (IXLREBLD) has been initiated the original structure is now the old structure. |
| | | ..1. | | QUACFSTRREBLDNEW | "X'20" Rebuild/new. If structure rebuild (IXLREBLD) has been initiated this structure is the new structure. |
| | | ...1 | | QUACFSTRTRAN | "X'10" Transitional state. If structure is either being allocated in a coupling facility or deleted from a coupling facility, it is tracked in the policy. |
| | | 1... | | QUACFSTRHOLD | "X'08" Holding state. If structure was being deleted from the coupling facility but connectivity was lost, it is tracked in the policy. |
| | |1.. | | QUACFSTRDUMPTBL | "X'04" Structure can not be deallocated since a dump table is associated with the structure. |
| 21 | (15) | BITSTRING | 1 | QUACFSTRFLG2 | Structure state |
| | | 1... | | QUACFSTRSTRFAIL | "X'80" Structure failure has been recognized for this version of the structure. |
| | | .1.. | | QUACFSTRNOSYSCON | "X'40" No systems have connectivity to the facility in which the structure is allocated |
| | | ..1. | | QUACFSTRDUPALTERDEFER | "X'20" The structure is duplexed and the alter of this structure instance is deferred, waiting for the alter of the other structure instance to complete. |
| | | ...1 | | QUACFSTRDUPALTERINPROGRESS | "X'10" The structure is duplexed and the alter of this structure instance is in progress. |
| | | 1... | | QUACFSTRPOPULATECFREBUILDPENDING | "X'08" The structre is in Pending Rebuild state for the current POPULATECF rebuild. |
| 22 | (16) | SIGNED | 2 | QUACFSTRSTRDUMPID | Structure Dump ID. Non zero value indicates dump table associated with structure. Valid only if structure is QUACFSTRACT, QUACFSTRREBLDNEW, QUACFSTRREBLDOLD, or QUACFSTRDUMPTBL. |
| 22 | (16) | X'18' | 0 | QUACFSTRLENG | **-QUACFSTR" |

| Offsets | | | | | |
|---------|------|------------|-----|---------------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | QUACFSTR1 | |
| 0 | (0) | CHARACTER | 24 | | Mapped by QUACFSTR |
| 24 | (18) | BITSTRING | 8 | QUACFSTRPHYSICALVERSION | Physical version for the structure. Changes when a new physical instance of the structure is allocated (e.g., user- or system-managed rebuild), and there is at least one active connector to observe the allocation. |
| 32 | (20) | BITSTRING | 8 | QUACFSTRLOGICALVERSION | Logical structure version number. Used in conjunction with the physical version number to identify an instance of a structure. The value of this field is set equal to the physical version number when the structure is initially allocated. It changes when a process that allocates a new instance of the structure (e.g., rebuild) is user- managed, but not when it is system-managed. |
| 40 | (28) | SIGNED | 1 | QUACFSTRRDATALISTSPERCONN | Number of lists per connection when lock structure with record data is allocated to support multiple lists. A nonzero value is returned when the structure is allocated (QuaCfStrAct, QuaCfStrRebldOld, or QuaCfStrRebldNew is on) and supports more than 1 record data list per connection. |
| 41 | (29) | CHARACTER | 111 | | Reserved |
| 41 | (29) | X'98' | 0 | QUACFSTR1_LEN | "*-QUACFSTR1" |

| Offsets | | | | | |
|---------|------|------------|-----|---------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | QUASTR | |
| 0 | (0) | BITSTRING | 1 | QUASTRTYP | X'20' Structure record, X'A0' Last structure record. |
| 0 | (0) | X'20' | 0 | QUATYPSTR | "32" Record type - Structure (QUASTR) |
| 0 | (0) | X'A0' | 0 | QUATYPSTR_LAST | "160" Record type - Last structure |
| 1 | (1) | BITSTRING | 1 | | Reserved X'00' |
| 2 | (2) | SIGNED | 2 | QUASTRLEN | Length of record |
| 4 | (4) | CHARACTER | 16 | QUASTRNAME | Name of structure |
| 20 | (14) | SIGNED | 4 | QUASTRSIZE | Size of structure as specified in CFRM active policy (number in multiple of 4K bytes) |
| 24 | (18) | BITSTRING | 4 | QUASTRSTATE | State of structure |
| 24 | (18) | BITSTRING | 1 | QUASTRSTATE1 | 1st byte of state indicators |
| | | 1... | | QUASTRSTDPEND | "X'80" Change pending in CFRM policy for structure |
| | | .1.. | | QUASTRSTTOBEDELETED | "X'40" The pending policy change for the structure is to delete the structure definition from the policy |
| | | ..1. | | QUASTRSTTOBECHANGED | "X'20" The pending policy change for the structure is to change the structure definition in the policy |
| 25 | (19) | BITSTRING | 1 | QUASTRSTATE2 | 2nd byte of state indicators |
| 26 | (1A) | BITSTRING | 1 | QUASTRSTATE3 | 3rd byte of state indicators |
| | | 1... | | QUASTRSTSDISP | "X'80" Allocated with STRDISP=KEEP |
| | | ..1. | | QUASTRSTREBLD | "X'20" Structure rebuild in progress |
| | | ...1 | | QUASTRSTREBLDSTOP | "X'10" Structure rebuild stopped QUASTRSTREBLD will also be on. |
| | | 1... | | QUASTRSTALTER | "X'08" Structure alter in progress |
| | |1.. | | QUASTRSTINCLEANUP | "X'04" Structure cleanup in progress |
| 27 | (1B) | BITSTRING | 1 | QUASTRSTATE4 | 4th byte of state indicators |

IXCYQUAA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------------------|-----|--------------------------------------|--|
| Dec | Hex | | | | |
| | | 1... | | QUASTRSTINPOLDEF | "X'80" X'80' Structure is defined in policy |
| 28 | (1C) | BITSTRING 1... | 1 | QUASTRINHWDW QUASTRINHWDON | Indicates structure in coupling facility |
| 29 | (1D) | BITSTRING | 1 | | "X'80" X'80' Allocated in coupling facility |
| 30 | (1E) | SIGNED | 2 | QUASTRCONNEXTRA | Reserved X'00' |
| | | | | | Highest connection identifier to this structure which can not be added to the policy. |
| 32 | (20) | SIGNED | 2 | QUASTRCONNEXTRA# | Number of connections to this structure which can not be added to the policy. |
| 34 | (22) | BITSTRING 1... | 1 | QUASTRFLG (0) QUASTRDUPLEXALLOWED | Structure flags |
| | | | | | "X'80" DUPLEX(ALLOWED) was specified in the CFRM active policy for the structure |
| | | .1.. | | QUASTRDUPLEXENABLED | "X'40" DUPLEX(ENABLED) was specified in the CFRM active policy for the structure |
| | | ..1. | | QUASTRPREFENFORCE | "X'20" ENFORCEORDER(YES) was specified |
| | | ...1 | | QUASTRALLOWAUTOALT | "X'10" ALLOWAUTOALT(YES) was specified |
| 35 | (23) | SIGNED | 1 | QUASTRREBUILDPERCENT | REBUILDPERCENT for structure as specified in CFRM active policy. Value of zero implies not specified. |
| 36 | (24) | SIGNED | 4 | QUASTRINITSIZE | INITSIZE for structure as specified in CFRM active policy (number in multiple of 4K bytes) |
| 40 | (28) | SIGNED | 4 | QUASTRPL# | Number of records for preference list entries for specified structure (QUASTRPL) |
| 44 | (2C) | SIGNED | 4 | QUASTRPLO | Offset from QUASTR to QUASTRPL records |
| 48 | (30) | SIGNED | 4 | QUASTRXL# | Number of records for exclusion list entries for specified structure (QUASTRXL) |
| 52 | (34) | SIGNED | 4 | QUASTRXLO | Offset from QUASTR to QUASTRXL records |
| 56 | (38) | SIGNED | 4 | QUASTRCF# | Number of records for coupling facilities containing specified structure (QUASTRCF) |
| 60 | (3C) | SIGNED | 4 | QUASTRCFO | Offset from QUASTR to QUASTRCF records |
| 64 | (40) | SIGNED | 4 | QUASTRUSER# | Number of records for connector to specified structure (QUASTRUSER) |
| 68 | (44) | SIGNED | 4 | QUASTRUSERO | Offset from QUASTR to QUASTRUSER records |
| 72 | (48) | CHARACTER | 40 | QUASTRTEXT (0) | CFRM active policy data |
| 72 | (48) | CHARACTER | 8 | QUASTRPOLNAME | Policy name If SETXCF STOP,POLICY,TYPE=CFRM has been issued then the name will be blanks. |
| 80 | (50) | CHARACTER | 8 | QUASTRUPDTIME | Time policy was last updated by the installation prior to this policy being activated. If SETXCF STOP,POLICY,TYPE=CFRM has been issued then the time will be the same time as QUASTRSETTIME. |
| 88 | (58) | CHARACTER | 8 | QUASTRSETTIME | Time policy was activated via operator command. |
| 96 | (60) | SIGNED | 4 | QUASTRREQ#STR | If non-zero value, indicates that the policy is not formatted to contain the maximum number of structure records and is not large enough to contain all the structures that exist in coupling facilities represented in the policy. Value should be used as input to format a couple data set for TYPE CFRM. |
| 100 | (64) | SIGNED | 2 | QUASTRREQ#CONN | If non-zero value indicates that the policy is not large enough to contain all the connections that exist for structures represented in the policy. Value should be used as input to format a couple data set for TYPE CFRM. |
| 102 | (66) | CHARACTER | 6 | | Reserved part of QUASTRTEXT |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------------------------|--|
| Dec | Hex | | | | |
| 108 | (6C) | SIGNED | 4 | QUASTREXTRA#STR | If non-zero value, indicates that the policy is formatted with the maximum number of structure records (or a recommendation was made to do so - if non-zero QuaStrReq#Str field) and represents the number of structures that must be removed from the policy to contain all the structures that exist in coupling facilities represented in the policy. |
| 112 | (70) | CHARACTER | 52 | QUASTRREBLDINFO (0) | IXLREBLD related information |
| 112 | (70) | BITSTRING | 4 | QUASTRREBLDPHASE (0) | Phase for the rebuild structure process. Valid when QuaStrStRebld is on. Note that not all phases are applicable to all rebuild types or methods. Type (duplexed or not duplexed) is indicated by QuastrRebldDuplex. Method (user- or system-managed) is indicated by QuaStrProcessMethod. |
| 112 | (70) | BITSTRING | 1 | QUASTRREBLDPHASE1 | 1st byte of phase indicators |
| | | 1... .. | | QUASTRREBLDQUIESCE | "X'80" QUIESCE - A structure rebuild has been initiated. Connections need to stop usage of the structure and confirm. This phase will be complete when all connections have issued IXLEERSP for the Rebuild Quiesce event. |
| | | .1.. .. | | QUASTRREBLDCOMPLETE | "X'40" COMPLETE - A structure rebuild is in progress. Connections can connect to new structure. This phase will be complete when all connections have issued IXLREBLD REQUEST=COMPLETE. |
| | | ..1. | | QUASTRREBLDCLEANUP | "X'20" CLEANUP - A structure rebuild is in progress. Connections have completed their part of the process and final cleanup is in progress. This phase will be complete when all connections have issued IXLEERSP for the Rebuild Cleanup event. |
| | | ...1 | | QUASTRREBLDSTOP | "X'10" STOP - Structure rebuild has been stopped. |
| | | 1... | | QUASTRREBLDDUPLEXESTABLISHED | "X'08" DUPLEX ESTABLISHED- Duplexing has been established and all users may proceed with duplexed structure operations. This phase will be complete when a switch to simplex mode using the new structure has been requested, and all users have issued IXLREBLD REQUEST=DUPLEXCOMPLETE |
| | |1.. | | QUASTRREBLDSTARTUP | "X'04" STARTUP - A system-managed process is in the startup phase. |
| | |1. | | QUASTRREBLDALLOCATE | "X'02" ALLOCATE - A system-managed process is in the allocate phase. The system participating in the phase is described in the QUASTRSYS record. |
| | |1 | | QUASTRREBLDATTACH | "X'01" ATTACH - A system-managed process is in the attach phase. The system(s) participating in the phase are described in the QUASTRSYS record. |
| 113 | (71) | BITSTRING | 1 | QUASTRREBLDPHASE2 | 2nd byte of phase indicators |
| | | 1... | | QUASTRREBLDCOPY | "X'80" COPY - A system-managed process is in the copy phase. The systems(s) participating in the phase are described in the QUASTRSYS record. |
| | | .1.. | | QUASTRREBLDCOPYSTOP | |

IXCYQUAA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-----------------------------|---|
| Dec | Hex | | | | |
| | | ..1. | | QUASTRREBLDQUIESCESTOP | "X'40'" COPY STOP - A system-managed process is in the copy stop phase. The system(s) participating in the phase are described in the QUASTRSYS record. |
| | | | | | "X'20'" QUIESCE FOR STOP - A system-managed duplexing rebuild is in the quiesce for stop phase. Activity to the duplexed structure is being quiesced. |
| 114 | (72) | BITSTRING | 1 | QUASTRREBLDPHASE3 | 3rd byte of phase indicators |
| 115 | (73) | BITSTRING | 1 | QUASTRREBLDPHASE4 | 4th byte of phase indicators |
| 116 | (74) | BITSTRING | 4 | QUASTRREBLDSTARTRSN | Rebuild start reason |
| | | 1... | | QUASTRREBLDSTARTOPER | "X'80'" Operator |
| | | .1.. | | QUASTRREBLDSTARTCONN | "X'40'" Connector. See user code. (QUASTRREBLDSTARTUCODE) |
| | | ..1. | | QUASTRREBLDSTARTLOSTCCF | "X'20'" Lost connectivity to coupling facility containing structure |
| | | ...1 | | QUASTRREBLDSTARTSTRFAIL | "X'10'" Structure failed |
| | | 1... | | QUASTRREBLDSTARTPOLICY | "X'08'" Policy-initiated (DUPLEX(ENABLED) specified for the structure) |
| 120 | (78) | SIGNED | 4 | QUASTRREBLDSTARTUCODE | User code if rebuild start reason was connector (QUASTRREBLDSTARTCONN) |
| 124 | (7C) | BITSTRING | 4 | QUASTRREBLDSTOPRSN (0) | Rebuild stop reason |
| 124 | (7C) | BITSTRING | 1 | QUASTRREBLDSTOPRSN1 (0) | |
| | | 1... | | QUASTRREBLDSTOPOPER | "X'80'" Operator |
| | | .1.. | | QUASTRREBLDSTOPCONN | "X'40'" Connector. See user code. (QUASTRREBLDSTOPUCODE) |
| | | ..1. | | QUASTRREBLDSTOPINSUFFCONN | "X'20'" No coupling facility in the preference list provided better or equivalent connectivity than the current facility. The rebuild was stopped to avoid a degradation in connectivity for the application. |
| | | ...1 | | QUASTRREBLDSTOPNOBETTERCONN | "X'10'" No coupling facility in the preference list provided better connectivity than the current facility for this LOSSCONN rebuild. The rebuild was stopped to avoid further degradation in connectivity for the application. |
| | | 1... | | QUASTRREBLDSTOPLOSTCCFNEW | "X'08'" Lost connectivity to coupling facility containing new structure |
| | |1.. | | QUASTRREBLDSTOPLOSTCCFOLD | "X'04'" Lost connectivity to coupling facility containing old structure |
| | |1. | | QUASTRREBLDSTOPSTRFAILNEW | "X'02'" New structure failed. |
| | |1 | | QUASTRREBLDSTOPSTRFAILOLD | "X'01'" Old structure failed. |
| 125 | (7D) | BITSTRING | 1 | QUASTRREBLDSTOPRSN2 (0) | |
| | | 1... | | QUASTRREBLDSTOPPOLICY | "X'80'" Policy-initiated (DUPLEX(DISABLED) specified for the structure) |
| | | .1.. | | QUASTRREBLDSTOPSTRFAIL | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|-----------------------------------|---|
| Dec | Hex | | | | |
| | | ...1. | | QUASTRREBLDSTOPLOSSCONN | "X'40" Structure failure (for a duplexing rebuild) |
| | | ...1 | | QUASTRREBLDSTOPINSUFFCONNCHGCON | "X'20" Loss of connectivity (for a duplexing rebuild) |
| | | 1... | | QUASTRREBLDSTOPPOPCFNOTSUITABLE | "X'10" Insufficient connectivity due to a change in the set of structure connectors (for a duplexing rebuild) |
| | | | | | "X'08" This structure was selected as a candidate for a PopulateCF rebuild, but the facility specified on the Start PopCF rebuild was not a suitable location compared to its current location |
| 126 | (7E) | BITSTRING | 1 | QUASTRREBLDSTOPRSN3 | |
| | | 1... | | (0) QUASTRREBLDSTOPSYSGDPHASEFAIL | |
| | | .1.. | | QUASTRREBLDSTOPDUMPSE | "X'80" Failure of a system-managed process phase |
| | | | | | "X'40" During a system-managed process, dump serialization prevented access to either the old or the new instance of the structure |
| | | ...1. | | QUASTRREBLDSTOPDUPLEXREQFAILED | |
| | | | | | "X'20" During a system-managed duplexing rebuild a duplexed request failed |
| | | ...1 | | QUASTRREBLDSTOPDUPLEXOUTOFSYNCH | |
| | | | | | "X'10" During a system-managed duplexing rebuild an out of synch condition was detected by a duplexed request issued during the duplex established phase |
| 128 | (80) | SIGNED | 4 | QUASTRREBLDSTOPUCODE | |
| | | | | | User code if rebuild stop reason was connector (QUASTRREBLDSTOPCONN) |
| 132 | (84) | CHARACTER | 32 | QUASTRREBLDPHASECONFIRMSTNG | |
| | | | | | Bit string representing active connections for this phase of rebuild. The bit position maps to the connection identifier. See QUASTRUSERCONID. |
| 164 | (A4) | CHARACTER | 104 | QUASTRUSYNCCONFIRMSTNG | |
| | | | | (0) | IXLUSYNCC related information |
| 164 | (A4) | CHARACTER | 32 | QUASTRUSYNCCONFIRMSTNG | |
| | | | | | Bit string representing active connections needing to respond to User Sync Point event represented by QUASTRUSYNCCONFIRMSTNG. The bit position maps to the connection identifier. See QUASTRUSERCONID. |
| 196 | (C4) | SIGNED | 4 | QUASTRUSYNCCONFIRMSTNG | |
| | | | | | Next User Sync Point event. This is the current event. In the event exit, the user receives this as the next event. |
| 200 | (C8) | CHARACTER | 32 | QUASTRUSYNCCONFIRMSTNG | |
| | | | | | Next User Sync Point user state information |
| 232 | (E8) | SIGNED | 4 | QUASTRUSYNCCONFIRMSTNG | |
| | | | | | Completed User Sync Point event. This is the previous event which has completed. In the event exit, the user receives this as the completed event. |
| 236 | (EC) | CHARACTER | 32 | QUASTRUSYNCCONFIRMSTNG | |
| | | | | | Completed User Sync Point user state information |
| 268 | (10C) | SIGNED | 4 | QUASTRUSYNCCONFIRMSTNG | |
| | | | | | Size of the structure in the pending policy, in units of 4K bytes. This field is valid only when it contains a nonzero value. Note that this field is set to the pending policy INITSIZE (if specified) or to the pending policy SIZE (if INITSIZE is not specified). |
| 272 | (110) | BITSTRING | 1 | QUASTRREBLDFLAGS | |
| | | | | (0) | Rebuild flags |
| | | 1... | | QUASTRREBLDDUPLEX | "X'80" Indicates whether or not the in-progress rebuild is a duplexing rebuild |
| | | .1.. | | QUASTRREBLDSWITCHINPROGRESS | |

IXCYQUAA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|--------------------------|---|
| Dec | Hex | | | | |
| | |1 | | QUASTRPROCESSMETHOD | "X'40" Indicates whether or not a switch to simplex mode using the new structure has been initiated for a duplexing rebuild that was in the rebuild duplex established phase. |
| | | | | | "X'01" ON=> the process in progress is system-managed. OFF=> the process in progress is user-managed. The process type is identified by the QuaStrStRebld and QuaStrRebldDuplex flags. |
| 273 | (111) | CHARACTER | 2 | QUASTRRSVD | Reserved |
| 275 | (113) | BITSTRING | 1 | QUASTRFULLTHRESHOLD | FULLTHRESHOLD for a structure specified or defaulted to in the CFRM policy |
| 276 | (114) | SIGNED | 4 | QUASTRMINSIZE | MINSIZE for a structure as specified or or defaulted to in the CFRM policy |
| 280 | (118) | CHARACTER | 15 | QUASTRALTER (0) | Structure alter data. Only has data if QUASTRSTALTER is on. |
| 280 | (118) | BITSTRING | 1 | QUASTRALTERFLG1 | Structure alter status flags |
| | | 1... | | QUASTRALTERSTOP | "X'80" Structure alter stopped |
| | | .1.. | | QUASTRALTEROPSTART | "X'40" Structure alter started by SETXCF command |
| | | ..1. | | QUASTRALTEROPSTOP | "X'20" Structure alter stopped by SETXCF command |
| | | ...1 | | QUASTRALTERPGMSTART | "X'10" Structure alter started by IXLALTER interface |
| | | 1... | | QUASTRALTERPGMSTOP | "X'08" Structure alter stopped by IXLALTER interface |
| | |1.. | | QUASTRALTERREBLDSTOP | "X'04" Structure alter stopped due to structure rebuild |
| | |1. | | QUASTRALTERSYSSTART | "X'02" Structure alter started by system for AutoAlter |
| | |1 | | QUASTRALTERSYSSTOP | "X'01" Structure alter stopped by system for AutoAlter |
| 281 | (119) | BITSTRING | 1 | QUASTRALTERFLG2 | Structure alter consensus from all connections and alter request data |
| | | 1... | | QUASTRALTERCHGSIZE | "X'80" Structure alter request specified size change |
| | | .1.. | | QUASTRALTERCHGRATIO | "X'40" Structure alter request specified ratio change |
| | | ..1. | | QUASTRALTERCHGEMC | "X'20" Structure alter request specified EMC change |
| | | ...1 | | QUASTRALTERNEW | "X'10" Alter in progress against the new structure during a duplexing rebuild process |
| | | 1... | | QUASTRALTEROLD | "X'08" Alter in progress against the old structure during a duplexing rebuild process |
| | |1 | | QUASTRALTERRATIO | "X'01" All connections permit change to ratio |
| 282 | (11A) | SIGNED | 1 | QUASTRALTERMINENTRY | Maximum for all connections of the minimum percent of entries |
| 283 | (11B) | SIGNED | 1 | QUASTRALTERMINELEMENT | Maximum for all connections of the minimum percent of elements |
| 284 | (11C) | SIGNED | 4 | QUASTRALTERTSIZE | Structure alter target size |
| 288 | (120) | SIGNED | 2 | QUASTRALTERTENTRYRATIO | Structure alter target entry part of entry-to-element ratio |
| 290 | (122) | SIGNED | 2 | QUASTRALTERTELEMENTRATIO | Structure alter target element part of entry-to-element ratio |
| 292 | (124) | SIGNED | 2 | QUASTRALTERTEMCSTGPCT | |

| Offsets | | | | | |
|---------|-------|------------|-----|-------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 294 | (126) | SIGNED | 1 | QUASTRALTERMINEMC | Structure alter target for Event Monitor Control Storage percent |
| 295 | (127) | BITSTRING | 1 | QUASTRSYSNUMRECS | Maximum for all connections of the minimum percent of EMC storage |
| 296 | (128) | SIGNED | 4 | | Reserved |
| 300 | (12C) | SIGNED | 4 | QUASTRSYSO | Number of records for system-related information for specified structure (QUASTRSYS) |
| 304 | (130) | CHARACTER | 8 | QUASTRRSVD2 | Offset from QUASTR to QUASTRSYS records |
| 304 | (130) | X'138' | 0 | QUASTRLENG | Reserved |
| | | | | | **-QUASTR" |

| Offsets | | | | | |
|---------|-------|------------|-----|------------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | QUASTR1 | Mapped by QUASTR |
| 0 | (0) | CHARACTER | 312 | | |
| 312 | (138) | CHARACTER | 16 | QUASTRUSYNCFINFO2 (0) | Additional USYNC info |
| 312 | (138) | SIGNED | 4 | QUASTRUSYNCCOMPCODE | Next completion code |
| 316 | (13C) | SIGNED | 4 | QUASTRUSYNCCOMPLETEDCOMPCODE | Completed completion code |
| 320 | (140) | CHARACTER | 8 | QUASTRREBLDPCTLOSSCONN | Reserved |
| 328 | (148) | SIGNED | 1 | | Percent loss of connectivity associated with a structure rebuild that was initiated by MVS based on REBUILDPERCENT |
| 329 | (149) | CHARACTER | 3 | QUASTRGRPNAME | Reserved |
| 332 | (14C) | CHARACTER | 8 | | XCF group name associated with this structure, if the structure is being used as a serialized structure. Otherwise, this field contains binary zero |
| 340 | (154) | CHARACTER | 8 | QUASTRPOPCFNAME | Name of Coupling Facility for which this structure is a PopulateCF candidate, if the structure is a PopCF candidate. Otherwise, this field contains binary zero |
| 348 | (15C) | BITSTRING | 8 | QUASTRAUTOVERSION | If a system-managed process affecting this structure is in progress, (QUASTRPROCESSMETHOD = ON), this field contains a token that can be used to correlate events related to that process. If no system-managed process affecting this structure is in progress, this field contains zero. |
| 356 | (164) | CHARACTER | 84 | QUASTR1_LEN | Reserved |
| 356 | (164) | X'1B8' | 0 | | **-QUASTR1" |

| Offsets | | | | | |
|---------|-----|------------|-----|------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | QUASTRPL | X'21' Structure preference list entry record, X'A1' Last structure preference list entry record |
| 0 | (0) | BITSTRING | 1 | QUASTRPLTYP | |
| 0 | (0) | X'21' | 0 | QUATYPSTRPL | "33" Record type - Structure preference list entry (QUASTRPL) |
| 0 | (0) | X'A1' | 0 | QUATYPSTRPL_LAST | "161" Record type - Last structure preference list entry |
| 1 | (1) | BITSTRING | 1 | QUASTRPLLEN | Reserved X'00' |
| 2 | (2) | SIGNED | 2 | | Length of record |
| 4 | (4) | CHARACTER | 4 | QUASTRPLRSVD | Reserved |
| 8 | (8) | CHARACTER | 8 | QUASTRPLNAME | Coupling facility named in preference list entry |
| 8 | (8) | X'10' | 0 | QUASTRPLLENG | **-QUASTRPL" |

IXCYQUAA Map

| Offsets | | | | | |
|---------|------|------------|-----|---------------|--------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | QUASTRPL1 | |
| 0 | (0) | CHARACTER | 16 | | Mapped by QUASTRPL |
| 16 | (10) | CHARACTER | 32 | | Reserved |
| 16 | (10) | X'30' | 0 | QUASTRPL1_LEN | "*-QUASTRPL1" |

| Offsets | | | | | |
|---------|-----|------------|-----|------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | QUASTRXL | |
| 0 | (0) | BITSTRING | 1 | QUASTRXLTYPE | X'22' Structure exclusion list entry record, X'A2' Last structure exclusion list entry record |
| 0 | (0) | X'22' | 0 | QUATYPSTRXL | "34" Record type - Structure exclusion list entry (QUASTRXL) |
| 0 | (0) | X'A2' | 0 | QUATYPSTRXL_LAST | "162" Record type - Last structure exclusion list entry |
| 1 | (1) | BITSTRING | 1 | | Reserved X'00' |
| 2 | (2) | SIGNED | 2 | QUASTRXLLEN | Length of record |
| 4 | (4) | CHARACTER | 4 | QUASTRXLRSVD | Reserved |
| 8 | (8) | CHARACTER | 16 | QUASTRXLNAME | Structure named in exclusion list entry |
| 8 | (8) | X'18' | 0 | QUASTRXLLENG | "*-QUASTRXL" |

| Offsets | | | | | |
|---------|------|------------|-----|---------------|--------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | QUASTRXL1 | |
| 0 | (0) | CHARACTER | 24 | | Mapped by QUASTRXL |
| 24 | (18) | CHARACTER | 32 | | Reserved |
| 24 | (18) | X'38' | 0 | QUASTRXL1_LEN | "*-QUASTRXL1" |

| Offsets | | | | | |
|---------|-----|------------|-----|------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | QUASTRCF | |
| 0 | (0) | BITSTRING | 1 | QUASTRCFTYPE | X'23' Coupling facility of specified structure record, X'A3' Last coupling facility of specified structure record. |
| 0 | (0) | X'23' | 0 | QUATYPSTRCF | "35" Record type - Coupling facility for allocated structure (QUASTRCF) |
| 0 | (0) | X'A3' | 0 | QUATYPSTRCF_LAST | "163" Record type - Last coupling facility for allocated structure |
| 1 | (1) | BITSTRING | 1 | | Reserved X'00' |
| 2 | (2) | SIGNED | 2 | QUASTRCFLEN | Length of record |
| 4 | (4) | CHARACTER | 8 | QUASTRCFNAME | Name of coupling facility where structure is allocated |
| 12 | (C) | BITSTRING | 1 | QUASTRCFFLG | Structure allocation status |
| | | 1... | | QUASTRCFACT | "X'80" ON->Only 1 structure is allocated with this structure name. Not part of a rebuild pair. OFF->2 structures are allocated with this name. See QuaStrCFRebldNew and QuaStrCFRebldOld to determine if this record represents either the rebuild new or rebuild old old structure. |
| | | .1.. | | QUASTRCFREBLDOLD | "X'40" Rebuild/old. If structure rebuild (IXLREBLD) has been initiated the original active structure is now the old structure. |
| | | ..1. | | QUASTRCFREBLDNEW | "X'20" Rebuild/new. If structure rebuild (IXLREBLD) has been initiated this structure is the new structure. |
| | | ...1 | | QUASTRCFTRAN | "X'10" Transitional state. If structure is either being allocated in coupling facility or deleted from coupling facility, it is tracked in the policy. |
| | | 1... | | QUASTRCFHOLD | "X'08" Holding state. If structure was being deleted from the coupling facility but connectivity was lost, it is tracked in the policy. |
| | |1.. | | QUASTRCFDUMPTBL | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------------------|-----|---------------------------------|---|
| Dec | Hex | | | | |
| 13 | (D) | BITSTRING 1... | 1 | QUASTRCFFLG2 QUASTRCFSTRFAIL | "X'04" Structure can not be deallocated since a dump table is associated with the structure. Structure state |
| | | .1.. | | QUASTRCFACCESSTIMENOLIMIT | "X'80" Structure failure has been recognized for this version of the structure. |
| | | ..1. | | QUASTRCFNOSYSCON | "X'40" Structure was allocated with IXLCONN ACESSTIME(NOLIMIT). Valid only if structure is QUASTRCFACT, QUASTRCFREBLDNEW, or QUASTRCFREBLDOLD. |
| | | ...1 | | QUASTRCFDUPALTERDEFER | "X'20" No systems have connectivity to the facility in which the structure is allocated |
| | | 1... | | QUASTRCFDUPALTERINPROGRESS | "X'10" The structure is duplexed and the alter of this structure instance is deferred, waiting for the alter of the other structure instance to complete. |
| 14 | (E) | SIGNED | 2 | QUASTRCFACCESSTIMEMAXIMUM | "X'08" The structure is duplexed and the alter of this structure instance is in progress. |
| | | | | | Access time for IXLCONN ACESSTIME(MAXIMUM). Valid only if structure is QUASTRCFACT, QUASTRCFREBLDNEW, or QUASTRCFREBLDOLD. |
| 16 | (10) | CHARACTER | 32 | QUASTRCFND (0) | Node descriptor of coupling facility where structure is allocated. IXLYNDE maps this field. |
| 16 | (10) | BITSTRING | 4 | | See IXLYNDE |
| 20 | (14) | CHARACTER | 26 | QUASTRCFID | EBCDIC portion of ND. See IXLYNDE |
| 46 | (2E) | BITSTRING | 2 | | See IXLYNDE |
| 48 | (30) | BITSTRING | 4 | | Reserved |
| 52 | (34) | BITSTRING | 8 | QUASTRCFVERSION (0) | Structure version. Time structure was allocated. |
| 52 | (34) | BITSTRING | 8 | QUASTRCFPHYSICALVERSION | Physical version for the structure. Changes when a new physical instance of the structure is allocated (e.g., user- or system-managed rebuild), and there is at least one active connector to observe the allocation. |
| 60 | (3C) | SIGNED | 2 | QUASTRCFMAXCONN | Maximum number of connections allowed when structure was allocated in coupling facility. Valid only if structure is QUASTRCFACT, QUASTRCFREBLDOLD, or QUASTRCFREBLDNEW. |
| 62 | (3E) | SIGNED | 2 | QUASTRCFSTRDUMPID | Structure Dump ID. Non zero value indicates dump table associated with structure. Valid only if structure is QUASTRCFACT, QUASTRCFREBLDNEW, QUASTRCFREBLDOLD, or QUASTRCFDUMPTBL. |
| 64 | (40) | CHARACTER | 8 | | Reserved |
| 64 | (40) | X'48' | 0 | QUASTRCFLENG | "*-QUASTRCF" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------------------|--------------------|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | QUASTRCF1 | |
| 0 | (0) | CHARACTER | 72 | | Mapped by QUASTRCF |
| 72 | (48) | BITSTRING | 8 | QUASTRCFLOGICALVERSION | |

IXCYQUAA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|----------------------------|---|
| Dec | Hex | | | | |
| 80 | (50) | SIGNED | 1 | QUASTRCFRDATA LISTSPERCONN | Logical structure version number. Used in conjunction with the physical version number to identify an instance of a structure. The value of this field is set equal to the physical version number when the structure is initially allocated. It changes when a process that allocates a new instance of the structure (e.g., rebuild) is user- managed, but not when it is system-managed. |
| 81 | (51) | CHARACTER | 55 | | Number of lists per connection when lock structure with record data is allocated to support multiple lists. A nonzero value is returned when the structure is allocated (QuaStrCfAct, QuaStrCfRebldOld, or QuaStrCfRebldNew is on) and supports more than 1 record data list per connection. |
| 81 | (51) | X'88' | 0 | QUASTRCF1_LEN | Reserved |
| | | | | | ** -QUASTRCF1" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-----------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | QUASTRUSER | |
| 0 | (0) | BITSTRING | 1 | QUASTRUSER TYP | X'24' Connector to structure record, X'A4' Last connector to structure record. |
| 0 | (0) | X'24' | 0 | QUATYPSTRU | "36" Record type - Structure connector data (QUASTRUSER) |
| 0 | (0) | X'A4' | 0 | QUATYPSTRU_LAST | "164" Record type - Last structure connector data |
| 1 | (1) | BITSTRING | 1 | | Reserved X'00' |
| 2 | (2) | SIGNED | 2 | QUASTRUSERLEN | Length of record |
| 4 | (4) | CHARACTER | 4 | QUASTRUSERCONVERSION | Connection version |
| 8 | (8) | CHARACTER | 8 | QUASTRUSERC DATA | Connect data |
| 16 | (10) | CHARACTER | 16 | QUASTRUSERCNAME | Connect name |
| 32 | (20) | CHARACTER | 8 | QUASTRUSERC LEVEL | Connect level |
| 40 | (28) | BITSTRING | 4 | QUASTRUSER SID (0) | System token for system on which connector was last active |
| 40 | (28) | BITSTRING | 1 | QUASTRUSER SNUM | System slot number |
| 41 | (29) | BITSTRING | 3 | | Reserved - do not use |
| 44 | (2C) | CHARACTER | 1 | | Reserved |
| 45 | (2D) | BITSTRING | 1 | QUASTRUSER INFOLEVEL | Indicates the level of information returned for the connection. |
| 45 | (2D) | X'1' | 0 | QUASTRUSER INFOLEVEL1 | "1" Information level 1 |
| 46 | (2E) | CHARACTER | 2 | QUASTRUSER ASID | ASID of connector when last active |
| 48 | (30) | CHARACTER | 8 | QUASTRUSER D DATA | Disconnect data |
| 56 | (38) | SIGNED | 4 | QUASTRUSER CFLEVEL | Connect CFLEVEL |
| 60 | (3C) | CHARACTER | 4 | | Reserved |
| 64 | (40) | CHARACTER | 8 | QUASTRUSER SYS | System name for system on which connector was last active |
| 72 | (48) | CHARACTER | 8 | QUASTRUSER STKN | Stoken when connector was last active |
| 80 | (50) | CHARACTER | 8 | QUASTRUSER JOB | Job name / Started task name when connector was last active |
| 88 | (58) | BITSTRING | 1 | QUASTRUSER FLG1 | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|--------------------------|--|
| Dec | Hex | | | | |
| | | 1... | | QUASTRUSERACT | Flags for state of connection "X'80" Active state - connection established. |
| | | .1.. | | QUASTRUSERFAIL | "X'40" Failed Persistent state - connection with CONDISP=KEEP has failed and all of the event exit responses have been received with RELEASECONN=NO. |
| | | ..1. | | QUASTRUSERTERM | "X'20" Failing state - connection terminated abnormally and not all of the event exit responses have been received. |
| | | ...1 | | QUASTRUSERDISC | "X'10" Disconnecting state - connection disconnected and not all of the event exit responses have been received. |
| | | 1... | | QUASTRUSERDISP | "X'08" Connected with CONDISP=KEEP |
| | |1.. | | QUASTRUSERDUAL | "X'04" Connected to both structures during structure rebuild (IXLREBLD). If structure rebuild has been initiated and 2 structures exist (the original active structure is now the old structure and the 2nd structure is the new structure) then the connector is currently connected to both. |
| | |1. | | QUASTRUSERALLOWREBLD | "X'02" Connected with ALLOWREBLD=YES |
| | |1 | | QUASTRUSERALLOWDUPREBLD | "X'01" Connected with ALLOWDUPREBLD=YES, indicating that this user allows and supports duplexing rebuild protocols for user-managed duplexing. |
| 89 | (59) | BITSTRING | 1 | QUASTRUSERFLG2 | Flags for connectivity state of the connected user. |
| | | 1... | | QUASTRUSERNCSTR | "X'80" If QUASTRSTREBLD is off then the connected user lost connectivity to the active/in use structure. If QUASTRSTREBLD is on then use QUASTRUSERNCSTRNEW and/or QUASTRUSERNCSTROLD. |
| | | .1.. | | QUASTRUSERNCSTRNEW | "X'40" If QUASTRSTREBLD is on and QUASTRUSERDUAL is on then the connected user lost connectivity to the new structure. |
| | | ..1. | | QUASTRUSERNCSTROLD | "X'20" If QUASTRSTREBLD is on then the connected user lost connectivity to the old structure. |
| 90 | (5A) | SIGNED | 1 | QUASTRUSERCONID | Connection identifier. The connection identifier is used for the bit position within confirm strings. These start with bit position zero. For example, if connections with connection identifiers 1, 4, and 6 are represented in a confirm string the 1st byte would be '4A'X with all remaining bytes '00'X. |
| 91 | (5B) | BITSTRING | 1 | QUASTRUSERFLG3 | Flags for failure isolation information for a user. |
| | | 1... | | QUASTRUSERFAILISOLSTR | "X'80" This information is only available if QUASTRUSERACT is on and QUASTRUSERINFOLEVEL is equal to or greater than QUASTRUSERINFOLEVEL1. If QUASTRSTREBLD is off, the system from which the user has connected is failure isolated from the active/in use structure. If QUASTRSTREBLD is on then use QUASTRUSERFAILISOLSTRNEW and/or QUASTRUSERFAILISOLSTROLD. |
| | | .1.. | | QUASTRUSERFAILISOLSTRNEW | "X'40" This information is only available if QUASTRUSERACT is on and QUASTRUSERINFOLEVEL is equal to or greater than QUASTRUSERINFOLEVEL1. If QUASTRSTREBLD is on and QUASTRUSERDUAL is on then the system from which the user has connected is failure isolated from the new structure. |
| | | ..1. | | QUASTRUSERFAILISOLSTROLD | |

IXCYQUAA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|---------------------------|---|
| Dec | Hex | | | | |
| | | ...1 | | QUASTRUSERNONVOLREQ | "X'20" This information is only available if QUASTRUSERACT is on and QUASTRUSERINFOLEVEL is equal to or greater than QUASTRUSERINFOLEVEL1. If QUASTRSTREBLD is on, the system from which the user has connected is failure isolated from the old structure. |
| 92 | (5C) | BITSTRING | 1 | QUASTRUSERFLG4 | "X'10" When ON, the user specified IXLCONN NONVOLREQ=YES. Valid only when QUASTRUSERACT is on. |
| | | 1... | | QUASTRUSERALLOWAUTO | Flags for rebuild information for a user. |
| | | ..1. | | QUASTRUSERSUSPEND | "X'80" When ON, this field indicates that the user specified IXLCONN with ALLOWAUTO=YES. |
| | | ...1 | | QUASTRUSERSUSPENDFAIL | "X'20" When ON, the user specified IXLCONN ALLOWAUTO=YES SUSPEND=YES. See also QUASTRUSERSUSPENDFAIL. Valid only when QUASTRUSERALLOWAUTO is ON. Applicable only when QUASTRUSERACT is ON. |
| 93 | (5D) | CHARACTER | 11 | QUASTRUSERRSVD | Reserved |
| 104 | (68) | CHARACTER | 4 | QUASTRUSERALTER (0) | Structure alter data as specified by connection via IXLCONN |
| 104 | (68) | BITSTRING | 2 | QUASTRUSERALTERFLG | Structure alter flags |
| | | 1... | | QUASTRUSERALTERALLOWED | "X'80" Structure alter allowed. IXLCONN specified with ALLOWALTER=YES |
| | | .1.. | | QUASTRUSERALTERRATIO | "X'40" Structure alter permits change to ratio. IXLCONN specified with RATIO=YES |
| 106 | (6A) | SIGNED | 1 | QUASTRUSERALTERMINENTRY | Value specified on IXLCONN for MINENTRY |
| 107 | (6B) | SIGNED | 1 | QUASTRUSERALTERMINELEMENT | Value specified on IXLCONN for MINELEMENT |
| 108 | (6C) | CHARACTER | 16 | QUASTRUSERCONTOKEN | Contoken for the user. This is always the original contoken returned on IXLCONN. The temporary contoken returned on IXLCONN REBUILD is not returned. |
| 124 | (7C) | CHARACTER | 4 | QUASTRUSERALTER2 (0) | More structure alter data as specified by connection via IXLCONN |
| 124 | (7C) | SIGNED | 1 | QUASTRUSERALTERMINEMC | Value specified on IXLCONN for MINEMC. |
| 125 | (7D) | CHARACTER | 3 | QUASTRUSERRSVD2 | Reserved |
| 128 | (80) | CHARACTER | 8 | | Reserved |
| 128 | (80) | X'88' | 0 | QUASTRUSERLENG | ** -QUASTRUSER" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|-------------|-------------|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | QUASTRUSER1 | |

| Offsets | | | | | |
|---------|------|------------|-----|--------------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | CHARACTER | 136 | | Mapped by QUASTRUSER |
| 136 | (88) | CHARACTER | 32 | QUASTRUSERDISCFAILEDCONFSTRING | User's current disconnect/failure confirm string. Valid only for unserialized structures |
| 168 | (A8) | CHARACTER | 88 | | Reserved |
| 168 | (A8) | X'100' | 0 | QUASTRUSER1_LEN | **QUASTRUSER1" |

| Offsets | | | | | |
|---------|------|------------|-----|-----------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | QUASTRSYS | |
| 0 | (0) | BITSTRING | 1 | QUASTRSYSTYP | X'25' System-info structure record, X'A5' Last system-info structure record. |
| 0 | (0) | X'25' | 0 | QUATYPSTRSYS | "37" Record Type System-info Structure |
| 0 | (0) | X'A5' | 0 | QUATYPSTRSYS_LAST | "165" Record Type Last System-info Struct. |
| 1 | (1) | BITSTRING | 1 | | Reserved X'00' |
| 2 | (2) | SIGNED | 2 | QUASTRSYSLEN | Length of record |
| 4 | (4) | CHARACTER | 8 | QUASTRSYSNAME | System name |
| 12 | (C) | BITSTRING | 4 | QUASTRSYSSID | System token |
| 12 | (C) | BITSTRING | 1 | (0) | |
| 12 | (C) | BITSTRING | 1 | QUASTRSYSNUM | System slot number |
| 13 | (D) | BITSTRING | 3 | | Reserved - DO NOT USE |
| 16 | (10) | BITSTRING | 4 | QUASTRSYSFLAGS | |
| | | | | (0) | System-related flags |
| 16 | (10) | BITSTRING | 1 | QUASTRSYSFLAGS1 | First byte of flags |
| | | 1... .. | | QUASTRSYSALLOCATING | "X'80" This system is in the process of allocating the new structure during the allocate phase of a system- managed process (e.g., rebuild) |
| | | .1.. .. | | QUASTRSYSATTACHING | "X'40" This system is in the process of attaching connectors to the new structure during the attach phase of a system-managed process (e.g., rebuild) |
| | | ..1. | | QUASTRSYSATTACHED | "X'20" This system has successfully attached connectors to the new structure during the attach phase of a system-managed process (e.g., rebuild) |
| | | ...1 | | QUASTRSYSCOPYWORKING | "X'10" This system is participating in the copy phase of a system-managed process (e.g., rebuild) |
| | | 1... | | QUASTRSYSCOPYFAILED | "X'08" This system was participating in the copy phase of a system-managed process (e.g., rebuild), but has failed. |
| | |1.. | | QUASTRSYSCOPYSTOPPING | "X'04" This system is participating in the copy stop phase of a system- managed process (e.g., rebuild), and is stopping the copy process. |
| | |1. | | QUASTRSYSCOPYSTOPPED | "X'02" This system was participating in the copy stop phase of a system- managed process (e.g., rebuild), and has now stopped. |
| 17 | (11) | BITSTRING | 1 | QUASTRSYSFLAGS2 | Second byte of flags |
| 18 | (12) | BITSTRING | 1 | QUASTRSYSFLAGS3 | Third byte of flags |
| 19 | (13) | BITSTRING | 1 | QUASTRSYSFLAGS4 | Fourth byte of flags |
| 20 | (14) | CHARACTER | 44 | | Reserved |

IXCYQUAA Map

| Offsets | | | | | |
|---------|------|------------|-----|---------------|---------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 20 | (14) | X'40' | 0 | QUASTRSYS_LEN | ""-QUASTRSYS" |

| Offsets | | | | | |
|---------|------|------------|-----|---------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | QUAARMS | |
| 0 | (0) | BITSTRING | 1 | QUAARMSTYP | X'30' ARM element status record, X'B0' Last ARM element status record |
| 0 | (0) | X'30' | 0 | QUATYPARMS | "48" Record Type ARM Element Status |
| 0 | (0) | X'B0' | 0 | QUATYPARMS_LAST | "176" Record Type Last ARM Element Status |
| 1 | (1) | BITSTRING | 1 | | Reserved X'00' |
| 2 | (2) | SIGNED | 2 | QUAARMSLEN | Length of record |
| 4 | (4) | CHARACTER | 16 | QUAARMSELEMENT | Element name |
| 20 | (14) | CHARACTER | 8 | QUAARMSINITSYS | Name of system on which the element initially registered with ARM. This will either be the first registration or the first registration after the element was deregistered (either explicitly or by ARM). |
| 28 | (1C) | CHARACTER | 8 | QUAARMSCURRSYS | Name of system on which the element is now running (or most recently ran if the element state is FAILED) |
| 36 | (24) | CHARACTER | 2 | QUAARMSINITCLONE | Clone ID of system on which the element initially registered. |
| 38 | (26) | CHARACTER | 2 | | Reserved |
| 40 | (28) | SIGNED | 4 | QUAARMSTOTELEMENTS | The total number of Elements that are currently registered with ARM |
| 44 | (2C) | SIGNED | 4 | QUAARMSMAXELEMENTS | The maximum number of Elements that are able to be registered with ARM |
| 48 | (30) | CHARACTER | 32 | | Reserved |
| 80 | (50) | CHARACTER | 8 | QUAARMSJESGROUP | Name of JESGROUP to which this element belongs and under which this element runs Blank if element registered with ELEMBIND=CURSYS |
| 88 | (58) | CHARACTER | 16 | QUAARMSRESTARTGROUP | Name of the restart group to which this element belongs based on the current policy |
| 104 | (68) | CHARACTER | 8 | QUAARMSJOBNAME | Name of the address space under which the element registered. Flags QUAARMSBATCHJOB and QUAARMSSTARTEDTSK indicate whether this name is of a job or a started task. |
| 112 | (70) | CHARACTER | 8 | QUAARMSSTOKEN | STOKEN for the address space under which the element last registered. |
| 120 | (78) | SIGNED | 2 | QUAARMSASID | ASID for the address space under which the element last registered. |
| 122 | (7A) | SIGNED | 2 | QUAARMSLEVEL | Level number for this element, determined by ELEMTYPE on the register request and by LEVEL specified in the current policy. |
| 124 | (7C) | CHARACTER | 8 | QUAARMSELEMTYPE | Element type specified on the register request (Will be blanks if type not specified on register request) |
| 132 | (84) | BITSTRING | 4 | QUAARMSFLAGS | Flags for ARM and element status |
| 132 | (84) | BITSTRING | 1 | QUAARMSSTATEFLAGS | Flags for element status |
| | | 1... | | QUAARMSSTARTING | "X'80" Element is starting |
| | | .1.. | | QUAARMSAVAILABLE | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-------------------------|--|
| Dec | Hex | | | | |
| 133 | (85) | ...1. | 1 | QUAARMSFAILED | "X'40" Element is available |
| | | ...1 | | QUAARMSRSTING | "X'20" Element is failed |
| | | 1... | | QUAARMSRCVING | "X'10" Element is restarting |
| | | | | | "X'08" Element is recovering |
| | | 1... | | QUAARMSGENFLAGS | Flags for general ARM data |
| | | | | QUAARMSENABLED | "X'80" ARM restarts are presently enabled in the sysplex. |
| | | .1.. | | QUAARMSFDSWARNING | "X'40" All ARM systems are not currently connected to the FDS. Data may not be current. |
| | | | | | |
| | | | | | |
| | | | | | |
| 134 | (86) | | 1 | QUAARMSFLAGS3 | Flags for element information |
| | | 1... | | QUAARMSBATCHJOB | "X'80" Element is a batch job |
| | | .1.. | | QUAARMSSTARTEDTSK | "X'40" Element is a started task |
| | | ..1. | | QUAARMSBACKING | "X'20" This element is backing up the element specified by QUAARMSASSOCELEMENT. It is the issuer of an Associate request. |
| | | ...1 | | QUAARMSBACKED | "X'10" This element is being backed up by the element specified by QUAARMSASSOCELEMENT. It is the target element of an Associate request. |
| | | 1... | | QUAARMSOVERRIDEJCL | "X'08" This element has override JCL to be used for restarts. The override JCL dataset name is specified in the current policy via RESTART_METHOD. |
| | |1.. | | QUAARMSOVERRIDESTART | "X'04" This element has override command text to be used for restarts. The override command text may be specified in the current policy via RESTART_METHOD or on a Register request via STARTTXT |
| | |1. | | QUAARMSTIMEDOUT | "X'02" This element has become available due to a Ready Timeout. |
| | |1 | | QUAARMSTERMTYPEALLTERM | "X'01" TERMTYPE=ALLTERM is in effect |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| 135 | (87) | | 1 | QUAARMSFLAGS4 | Flags for more Element Information |
| | | 1... | | QUAARMSNORESTART | "X'80" Current policy prohibits an ARM restart of this element. Restart_Attempts is zero. |
| | | .1.. | | QUAARMSNOSYSRESTART | "X'40" Element is prohibited to restart on another system. This is determined by the TERMTYPE values specified in the current policy and on the Register request. |
| | | .1.. | | QUAARMSTERMTYPEELEMTERM | "X'40" TERMTYPE=ELEMTERM is in effect |
| | | ..1. | | QUAARMSTERMYPESYSTEM | "X'20" TERMTYPE=SYSTEM is in effect Value is determined from TERMTYPE specification on the register request and TERMTYPE specification in the ARM policy. On-> TERMTYPE specified is SYSTEM which prevents this element from being restarted on the system where it is registered. This element will be restarted when the system it is registered on fails. Off->Termination type does not prevent element from being restarted on the system where it is registered. |
| | | | | | |
| | | | | | |
| | | ...1 | | QUAARMSELEMBINDCURSYS | |

IXCYQUAA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-----------------------------|---|
| Dec | Hex | | | | |
| | | 1111 | | QUAARMSRSTINGINFO | "X'10" On -> Element was registered with ELEMBIND=CURSYS. Element has a minimum bind to the system on which it registered. The job or started task in QuaArmsJobName is not restarted when this element fails. QuaArmsJobName only indicates the job or started task under which this element was registered, if any. Off -> Element does not have a minimum bind to the system on which it registered. |
| | | 1... | | QUAARMSRSTINGINERE | "X'0F" QUAARMSRSTING qualifying information. These bits contain additional qualifying information for an element that is in a restarting state. NOTE: THIS INFORMATION IS ONLY PROVIDED ON THE SYSTEM WHERE THE ELEMENT IS BEING RESTARTED |
| | |1.. | | QUAARMSRSTINGINEVE | "X'08" Element is in a restarting state. The automatic restart manager has gotten to the point in restart processing where it calls the element restart exits(s). No exits may have been called, an exit may be in control, or all exits may have returned. NOTE: THIS INFORMATION IS ONLY PROVIDED ON THE SYSTEM WHERE THE ELEMENT IS BEING RESTARTED @PFA |
| | |1. | | QUAARMSRSTCOMMITTED | "X'04" Element is in a restarting state. The element's event exit is currently in control or has returned control to ARM. NOTES: 1) THIS INFORMATION IS ONLY PROVIDED ON THE SYSTEM WHERE THE ELEMENT IS BEING RESTARTED 2) Unlike the QUAARMSRSTINGINERE bit, this bit is only set when the element has provided an Event Exit during registration. |
| 136 | (88) | CHARACTER | 8 | QUAARMSREGTIME | "X'02" Element is in a restarting state. ARM has initiated the restart of the element by implementing the restart method. NOTE: THIS INFORMATION IS ONLY PROVIDED ON THE SYSTEM WHERE THE ELEMENT IS BEING RESTARTED @PFA |
| 144 | (90) | CHARACTER | 8 | QUAARMSFSTRSTR | TOD Clock value when the element initially registered with ARM. This will either be the first registration or the first registration after the element was deregistered (either explicitly or by ARM). |
| 152 | (98) | CHARACTER | 8 | QUAARMSLSTRSTR | TOD Clock value at the first restart, if this element has been restarted. |
| 160 | (A0) | CHARACTER | 12 | QUAARMSRESTARTCOUNTS (0) | TOD Clock value at most recent restart if this element has been restarted |
| 160 | (A0) | SIGNED | 4 | QUAARMSTOTALRESTARTS | Restart Count Fields |
| 164 | (A4) | SIGNED | 2 | QUAARMSNUMRESTARTS | Total number of times the element has restarted since the element's initial registration |
| 166 | (A6) | SIGNED | 2 | QUAARMSMAXRESTARTS | Number of times the element has restarted in the past time interval specified in the current policy |
| 168 | (A8) | SIGNED | 4 | QUAARMSRESTARTINT | Maximum number of restart attempts ARM will make in a given interval, as specified in the current policy |
| 172 | (AC) | CHARACTER | 8 | QUAARMSEVENTEXTNAME | Interval (in seconds) over which the restarts are counted to determine if an element can be restarted, as specified in the current policy. |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-----------------------|---|
| Dec | Hex | | | | |
| 180 | (B4) | CHARACTER | 16 | QUAARMSASSOCELEMENT | Name of element's event exit routine. (Will be blanks if an element did not specify an event exit on the register request) Name of the associated element, if one exists. QUAARMSBACKING and QUAARMSBACKED flags can be used to determine if this element name is the primary element (target element on an Associate request) or the backup element (issuer of the Associate request). |
| 196 | (C4) | CHARACTER | 8 | QUAARMSASSOCSYSNAME | Name of system on which the associated element is running. |
| 204 | (CC) | SIGNED | 4 | QUAARMSRESTARTTIMEOUT | Restart timeout interval used to determine how long the Automatic Restart Manager should wait for the element to reregister after having been restarted |
| 208 | (D0) | SIGNED | 4 | QUAARMSREADYTIMEOUT | Ready timeout interval used to determine how long the Automatic Restart Manager should wait for the element to become ready before automatically considering the element to be ready |
| 212 | (D4) | SIGNED | 4 | QUAARMSRESTARTPACING | Restart pacing interval used between the restart of each element in the restart group. It is determined by the RESTART_PACING interval in the policy |
| 216 | (D8) | SIGNED | 4 | QUAARMSFREECSA | The number of kilobytes of CSA that must available on the target system for this restart group to be restarted. |
| 220 | (DC) | SIGNED | 4 | QUAARMSFREEECSA | The number of kilobytes of ECSA that must available on the target system for this restart group to be restarted. |
| 224 | (E0) | CHARACTER | 16 | QUAARMSRMTOKEN | RMTOKEN identifying this registration. Same as returned by the RMTOKEN keyword on the register request, if specified. |
| 240 | (F0) | CHARACTER | 16 | QUAARMSRSVD | Reserved |
| 240 | (F0) | X'100' | 0 | QUAARMSLENG | **-QUAARMS" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------------------|-----|---|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | QUREQFEATURES | Data for Query REQINFO=FEATURES |
| 0 | (0) | BITSTRING | 4 | QUREQFEATURES1 | First word of Features flags |
| 0 | (0) | BITSTRING 1... | 1 | QUREQFEATURES1A QUREQRFPROXYRESPONSE | "X'80" ProxyResponse Feature is available for IXLUSYNC, IXLEERSP REQUEST=REBLDCOMPLETE and IXLEERSP REQUEST=REBLDSTOP |
| | | .1.. | | QUREQRFUSYNCCOMPCODE | "X'40" IXLUSYNC COMPCODE function is available on this system |
| | | .1.. | | QUREQRFREBUILDPCTLOSSCONN | "X'40" Percent lossconn is available for rebuild events on this system |
| | | ..1. | | QUREQRFREBUILDDUPLEX | "X'20" Duplexing rebuild support for user-managed duplexing is available on this system |
| | | ...1 | | QUREQRFIXLMGHWSTATCF | "X'10" HWSTATISTICS(CF) for IXLMG is supported on this system |
| | | 1... | | QUREQRFIXLRTRDATATYPE | "X'08" IXLRT RDATATYPE function is available on this system |
| | |1.. | | QUREQRFIXLCONNSSUSPENDFAIL | "X'04" IXLCONN SUSPEND(FAIL) is supported on this system |

IXCYQUAA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---|-----|------------------------|-----|---|--|
| Dec | Hex | | | | |
| | |1. | | QUREQRFRETURNRDATATYPE | "X'02" IXLRT support to return the RDATATYPE for record data entries that are read is available on this system |
| | |1 | | QUREQRFDEMEBUFFERSIZE | "X'01" DELETE_ENTRYLIST and MOVE_ENTRYLIST buffer size requirements relaxation available on this system |
| 1 | (1) | BITSTRING 1... | 1 | QUREQFEATURES1B QUREQRFDETAILEDXCFSTATUS | "X'80" IXCMG TYPE=MEMBER and AMDALEVEL=1 support is available on this system. |
| 2 | (2) | BITSTRING | 1 | QUREQFEATURES1C | Reserved |
| 3 | (3) | BITSTRING | 1 | QUREQFEATURES1D | Reserved |
| 4 | (4) | CHARACTER | 28 | | Reserved |
| Comment | | | | | |
| Constants defining reason codes by return code reason code for return code = X'04' (warning) | | | | | |
| End of Comment | | | | | |
| | |1.. | | QUAARSNRECORDSREMAIN | "X'00000004" Reason code for IXCQUERY completed successfully and provided some data, however, ANSAREA is too small to contain all the requested data |
| Comment | | | | | |
| reason code for return code = X'08' (invalid parameters) | | | | | |
| End of Comment | | | | | |
| | |1.. | | QUAARSNGROUPNOTFOUND | "X'00000004" Reason code for the group name specified is not defined to XCF. |
| | | 1... | | QUAARSNREQINFONOTVALID | "X'00000008" Reason code for the REQINFO information is not valid. |
| | | 11.. | | QUAARSNREQTYPEINCOR | "X'0000000C" Reason code for the caller specified the REQTYPE control paramter incorrectly. |
| | | ...1 | | QUAARSNMEMBERNOTFOUND | "X'00000010" Reason code for the member name specified is not defined within the specified group. |
| | | ...1 .1.. | | QUAARSNANSAREATOOSMALL | "X'00000014" Reason code for the length the caller specified on ANSLEN is too small to contain even the header. |
| | | ...1 1... | | QUAARSNANSAREANOACCESS | "X'00000018" Reason code for XCF cannot access ANSAREA. |
| | | ...1 11.. | | QUAARSNANSALETNOTVALID | "X'0000001C" Reason code for the ALET that qualifies the address of the ANSAREA is neither zero nor is it associated with a valid public entry on the DU-AL. |
| | | ..1. | | QUAARSNCFNOTFOUND | "X'00000020" Reason code for the coupling facility name specified is not defined in CFRM active policy. |
| | | ..1. .1.. | | QUAARSNSTRNOTFOUND | "X'00000024" Reason code for the structure name specified is not defined in CFRM active policy. |
| | | ..1. 1... | | QUAARSNARMNAMENOTFOUND | "X'00000028" Reason code for there are no elements with the specified element name, restart group name, or job name. Only returned if IXCQUERY request (REQINFO) is for ARMSTATUS. |
| | | ..11 .1.. | | QUAARSNAMODE24 | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---|-----|------------|-----|--------------------------|---|
| Dec | Hex | | | | |
| | | .1.. | | QUAARSNBADPLISTRSD | "X'00000034" Reason code for the macro was issued in 24-bit addressing mode. |
| | | 1.1. | | QUAARSNINVR0 | "X'00000040" Reason code for a reserved field in the control parameter list is not zero. Your program might have inadvertently written over an area in the control parameter list. "X'000000A0" Reason code for register zero value is not valid. Only returned if REQINFO is for ARMSTATUS or ARMS_ALLDATA. |
| | | 1.1. .1.. | | QUAARSNR0TYPECONFL | "X'000000A4" reason code for register zero value is not correct for the requested function. Only returned if REQINFO is for ARMSTATUS or ARMS_ALLDATA |
| 4 | (4) | BITSTRING | 0 | QUAARSNPLISTALETNOTVALID | "X'00000100" Reason code for the ALET that qualifies the address of the control parameter list is neither zero nor is it associated with a valid public entry on the DU-AL. |
| 4 | (4) | BITSTRING | 0 | QUAARSNVERSIONNOTVALID | "X'00000104" Reason code for the version number in the control parameter list is not valid. Your program might have inadvertently written over an area in the control parameter list. |
| 4 | (4) | BITSTRING | 0 | QUAARSNFUNCCODENOTVALID | "X'00000108" Reason code for the function code in the control parameter list is not valid. Your program might have inadvertently written over an area in the control parameter list. |
| 4 | (4) | BITSTRING | 0 | QUAARSNPLISTNOACCESS | "X'0000010C" Reason code for XCF could not access the control parameter list. |
| 4 | (4) | BITSTRING | 0 | QUAARSNNOTTASKMODE | "X'00000118" Reason code for the caller is not in task mode. |
| 4 | (4) | BITSTRING | 0 | QUAARSNNOTENABLED | "X'0000011C" Reason code for the caller is not enabled. |
| 4 | (4) | BITSTRING | 0 | QUAARSNHASLOCK | "X'00000120" Reason code for the caller is holding a lock. |
| 4 | (4) | BITSTRING | 0 | QUAARSNHASEUTFRR | "X'00000124" Reason code for the caller is running under an EUT FRR. |
| 4 | (4) | BITSTRING | 0 | QUAARSNQUAALEVELNOTVALID | "X'00000128" Reason code for the caller has specified an invalid value for QUAALEVEL |
| Comment | | | | | |
| reason code for return code = X'0C' (environmental error) | | | | | |
| End of Comment | | | | | |
| | |1.. | | QUAARSNDSPPSERVFAIL | "X'00000004" Reason code for XCF could not create a data space for IXCQUERY request (REQINFO) CF, CF_ALLDATA, STR, or STR_ALLDATA. |
| | | 1... | | QUAARSNALSERVFAIL | "X'00000008" Reason code for XCF could not associate the data space created for IXCQUERY request (REQINFO) CF, CF_ALLDATA, STR, or STR_ALLDATA with the XCF address space. |
| | | ...1 1... | | QUAARSNTASKABENDED | "X'00000018" Reason code for while the issuing task was suspended for XCF processing, the task was abended (ie. another unit of work attempted to abnormally terminate this task). No data was returned in the ANSAREA. This only applies to IXCQUERY requests REQINFO=GROUP,REQTYPE=DEFER. |
| 4 | (4) | BITSTRING | 0 | QUAARSNNOCFRMSDN | |

IXCYQUAA Cross Reference

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|---------------------|---|
| Dec | Hex | | | | |
| 4 | (4) | BITSTRING | 0 | QUAARSNNOCFRMPOL | "X'00000144"" Reason code for the CFRM active policy could not be read because the couple data set supporting TYPE CFRM is not accessible to this system. Only returned if IXCQUERY request (REQINFO) is for CF, CF_ALLDATA, STR, or STR_ALLDATA. |
| 4 | (4) | BITSTRING | 0 | QUAARSNFAILCFRMREAD | "X'00000154"" Reason code for a CFRM policy has not been activated. Only returned if IXCQUERY request (REQINFO) is for CF, CF_ALLDATA, STR, or STR_ALLDATA. |
| 4 | (4) | BITSTRING | 0 | QUAARSNNOARMDSN | "X'0000015C"" Reason code for the CFRM active policy could not be read because the couple data set supporting TYPE CFRM is in error. Only returned if IXCQUERY request (REQINFO) is for CF, CF_ALLDATA, STR, or STR_ALLDATA. |
| 4 | (4) | BITSTRING | 0 | QUAARSNFAILARMREAD | "X'00000160"" Reason code for the ARM data could not be read because the couple data set supporting TYPE ARM is not accessible to this system. Only returned if IXCQUERY request (REQINFO) is for ARMSTATUS or ARMS_ALLDATA. |
| 4 | (4) | BITSTRING | 0 | QUAARSNFAILARMREAD | "X'00000164"" Reason code for the ARM data could not be read because the couple data set supporting TYPE ARM is in error. Only returned if IXCQUERY request (REQINFO) is for ARMSTATUS or ARMS_ALLDATA. |

IXCYQUAA Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|-----------------------|------------|-----------|----------------------|------------|-----------|
| QUAARMS | 0 | | QUAARMSFREECSA | | |
| QUAARMSASID | 78 | | | D8 | |
| QUAARMSASSOCELEMENT | B4 | | QUAARMSFREEECSA | | |
| QUAARMSASSOCSYSNAME | C4 | | | DC | |
| QUAARMSAVAILABLE | 84 | 40 | QUAARMSFSTRSTRT | 90 | |
| QUAARMSBACKED | 86 | 10 | QUAARMSGENFLAGS | 85 | |
| QUAARMSBACKING | 86 | 20 | QUAARMSINITCLONE | 24 | |
| QUAARMSBATCHJOB | 86 | 80 | QUAARMSINITSYS | 14 | |
| QUAARMSCURRSYS | 1C | | QUAARMSJESGROUP | 50 | |
| QUAARMSELEMBINDCURSYS | 87 | 10 | QUAARMSJOBNAME | 68 | |
| QUAARMSELEMENT | 4 | | QUAARMSLEN | 2 | |
| QUAARMSELEMTYPE | 7C | | QUAARMSLENG | F0 | 100 |
| QUAARMSENABLED | 85 | 80 | QUAARMSLEVEL | 7A | |
| QUAARMSEVENTEXITNAME | AC | | QUAARMSLSTRSTRT | 98 | |
| QUAARMSFAILED | 84 | 20 | QUAARMSMAXELEMENTS | 2C | |
| QUAARMSFDSWARNING | 85 | 40 | QUAARMSMAXRESTARTS | A6 | |
| QUAARMSFLAGS | 84 | | QUAARMSNORESTART | 87 | 80 |
| QUAARMSFLAGS3 | 86 | | QUAARMSNOSYSRESTART | 87 | 40 |
| QUAARMSFLAGS4 | 87 | | QUAARMSNUMRESTARTS | A4 | |
| | | | QUAARMSOVERRIDEJCL | 86 | 8 |
| | | | QUAARMSOVERRIDESTART | 86 | 4 |

| Name | Hex Offset | Hex Value |
|-------------------------|------------|-----------|
| QUAARMSRCVING | | |
| | 84 | 8 |
| QUAARMSREADYTIMEOUT | | |
| | D0 | |
| QUAARMSREGTIME | | |
| | 88 | |
| QUAARMSRESTARTCOUNTS | | |
| | A0 | |
| QUAARMSRESTARTGROUP | | |
| | 58 | |
| QUAARMSRESTARTINT | | |
| | A8 | |
| QUAARMSRESTARTPACING | | |
| | D4 | |
| QUAARMSRESTARTTIMEOUT | | |
| | CC | |
| QUAARMSRMTOKEN | | |
| | E0 | |
| QUAARMSRSTCOMMITTED | | |
| | 87 | 2 |
| QUAARMSRSTING | | |
| | 84 | 10 |
| QUAARMSRSTINGINERE | | |
| | 87 | 8 |
| QUAARMSRSTINGINEVE | | |
| | 87 | 4 |
| QUAARMSRSTINGINFO | | |
| | 87 | F |
| QUAARMSRSVD | | |
| | F0 | |
| QUAARMSSTARTEDTSK | | |
| | 86 | 40 |
| QUAARMSSTARTING | | |
| | 84 | 80 |
| QUAARMSSTATEFLAGS | | |
| | 84 | |
| QUAARMSSTOKEN | | |
| | 70 | |
| QUAARMSTERMTYPEALLTERM | | |
| | 86 | 1 |
| QUAARMSTERMTYPEELEMTERM | | |
| | 87 | 40 |
| QUAARMSTERMYPESYSTEM | | |
| | 87 | 20 |
| QUAARMSTIMEDOUT | | |
| | 86 | 2 |
| QUAARMSTOTALRESTARTS | | |
| | A0 | |
| QUAARMSTOTELEMENTS | | |
| | 28 | |
| QUAARMSTYP | | |
| | 0 | |
| QUAARSNALSERVFAIL | | |
| | 4 | 8 |
| QUAARSNAMODE24 | | |
| | 4 | 34 |
| QUAARSNANSALETNOTVALID | | |
| | 4 | 1C |
| QUAARSNANSAREANOACCESS | | |
| | 4 | 18 |
| QUAARSNANSAREATOOSMALL | | |
| | 4 | 14 |
| QUAARSNARMNAMENOTFOUND | | |
| | 4 | 28 |
| QUAARSNBADPLISTRVD | | |
| | 4 | 40 |
| QUAARSNCFNOTFOUND | | |

| Name | Hex Offset | Hex Value |
|--------------------------|------------|-----------|
| | 4 | 20 |
| QUAARSNDSPSERVFAIL | | |
| | 4 | 4 |
| QUAARSNFAILARMREAD | | |
| | 4 | 164 |
| QUAARSNFAILCFRMREAD | | |
| | 4 | 15C |
| QUAARSNFUNCCODENOTVALID | | |
| | 4 | 108 |
| QUAARSNGROUPNOTFOUND | | |
| | 4 | 4 |
| QUAARSNHASEUTFRR | | |
| | 4 | 124 |
| QUAARSNHASLOCK | | |
| | 4 | 120 |
| QUAARSNINVR0 | | |
| | 4 | A0 |
| QUAARSNMEMBERNOTFOUND | | |
| | 4 | 10 |
| QUAARSNNOARMDSN | | |
| | 4 | 160 |
| QUAARSNNOCFRMDSN | | |
| | 4 | 144 |
| QUAARSNNOCFRMPOL | | |
| | 4 | 154 |
| QUAARSNNOTENABLED | | |
| | 4 | 11C |
| QUAARSNNOTTASKMODE | | |
| | 4 | 118 |
| QUAARSNPLISTALETNOTVALID | | |
| | 4 | 100 |
| QUAARSNPLISTNOACCESS | | |
| | 4 | 10C |
| QUAARSNQUAALEVELNOTVALID | | |
| | 4 | 128 |
| QUAARSNRECORDSREMAIN | | |
| | 4 | 4 |
| QUAARSNREQINFONOTVALID | | |
| | 4 | 8 |
| QUAARSNREQTYPEINCOR | | |
| | 4 | C |
| QUAARSNR0TYPECONFL | | |
| | 4 | A4 |
| QUAARSNSTRNOTFOUND | | |
| | 4 | 24 |
| QUAARSNTASKABENDED | | |
| | 4 | 18 |
| QUAARSNVERSIONNOTVALID | | |
| | 4 | 104 |
| QUACF | | |
| | 0 | |
| QUACFDUMPSIZE | | |
| | 2C | |
| QUACFEXTRA#STR | | |
| | 74 | |
| QUACFID | | |
| | 10 | |
| QUACFLEN | | |
| | 2 | |
| QUACFLENG | | |
| | 78 | A0 |
| QUACFNAME | | |
| | 4 | |
| QUACFND | | |
| | C | |
| QUACFPOLNAME | | |
| | 50 | |
| QUACFREQ#CONN | | |
| | 6C | |
| QUACFREQ#STR | | |
| | 68 | |
| QUACFRSVD | | |
| | 38 | |
| QUACFRSVD2 | | |
| | 78 | |
| QUACFSC | | |
| | 0 | |

IXCYQUAA Cross Reference

| Name | Hex Offset | Hex Value |
|----------------------------------|------------|-----------|
| QUACFSC# | 40 | |
| QUACFSCLEN | 2 | |
| QUACFSCLENG | C | 10 |
| QUACFSCNAME | 4 | |
| QUACFSCO | 44 | |
| QUACFSCRSVD | C | |
| QUACFSCSTYP | 0 | |
| QUACFSC1 | 0 | |
| QUACFSC1_LEN | 10 | 50 |
| QUACFSETTIME | 60 | |
| QUACFSTATE | 30 | |
| QUACFSTATE1 | 30 | |
| QUACFSTATE2 | 31 | |
| QUACFSTATE3 | 32 | |
| QUACFSTATE4 | 33 | |
| QUACFSTDPEND | 30 | 80 |
| QUACFSTFAILED | | |
| | 31 | 40 |
| QUACFSTPOPULATECFTARGET | | |
| | 32 | 80 |
| QUACFSTR | 0 | |
| QUACFSTR# | 48 | |
| QUACFSTRACT | 14 | 80 |
| QUACFSTRDUMPTBL | | |
| | 14 | 4 |
| QUACFSTRDUPALTERDEFER | | |
| | 15 | 20 |
| QUACFSTRDUPALTERINPROGRESS | | |
| | 15 | 10 |
| QUACFSTRECONCILE | | |
| | 31 | 80 |
| QUACFSTREXTRA | | |
| | 34 | |
| QUACFSTRFLG | 14 | |
| QUACFSTRFLG2 | 15 | |
| QUACFSTRHOLD | 14 | 8 |
| QUACFSTRLEN | 2 | |
| QUACFSTRLENG | 16 | 18 |
| QUACFSTRLOGICALVERSION | | |
| | 20 | |
| QUACFSTRNAME | 4 | |
| QUACFSTRNOSYSCON | | |
| | 15 | 40 |
| QUACFSTRO | 4C | |
| QUACFSTRPHYSICALVERSION | | |
| | 18 | |
| QUACFSTRPOPULATECFREBUILDPENDING | | |
| | 15 | 8 |
| QUACFSTRRDATALISTSPERCONN | | |
| | 28 | |
| QUACFSTRREBLDNEW | | |
| | 14 | 20 |
| QUACFSTRREBLDOLD | | |
| | 14 | 40 |
| QUACFSTRSTRDUMPID | | |
| | 16 | |
| QUACFSTRSTRFAIL | | |
| | 15 | 80 |
| QUACFSTRSTRAN | 14 | 10 |
| QUACFSTRSTYP | 0 | |
| QUACFSTR1 | 0 | |
| QUACFSTR1_LEN | | |
| | 29 | 98 |
| QUACFTEXT | 50 | |
| QUACFTYP | 0 | |

| Name | Hex Offset | Hex Value |
|---------------------------|------------|-----------|
| QUACFUPDPTIME | 58 | |
| QUACF1 | 0 | |
| QUACF1_LEN | A0 | E0 |
| QUAG#MEM | C | |
| QUAGFLAG1 | 10 | |
| QUAGLEN | 2 | |
| QUAGLENG | 11 | 14 |
| QUAGNAME | 4 | |
| QUAGRP | 0 | |
| QUAGSTALLED | 10 | 80 |
| QUAGTYPE | 0 | |
| QUAH#REC | 0 | |
| QUAH#REM | 4 | |
| QUAHDR | 0 | |
| QUAHLENG | C | 10 |
| QUAHSGOF | C | |
| QUAHTLEN | 8 | |
| QUAMEM | 0 | |
| QUAMINTV | 44 | |
| QUAMJOB | 2C | |
| QUAMLEN | 2 | |
| QUAMLENG | 58 | 5C |
| QUAMMREM | 1D | 2 |
| QUAMNAME | 4 | |
| QUAMPROCANRECEIVE | | |
| | 54 | 80 |
| QUAMPROCANREPLY | | |
| | 54 | 40 |
| QUAMPROGT61KDELIVERY | | |
| | 54 | 8 |
| QUAMPROGT61KMSG | | |
| | 54 | 4 |
| QUAMPROORDEREDDELIVERY | | |
| | 54 | 10 |
| QUAMPRORESPONSECOLLECTION | | |
| | 54 | 20 |
| QUAMPROTOCOLS | | |
| | 54 | |
| QUAMSACT | 1C | 3 |
| QUAMSCRE | 1C | 2 |
| QUAMSFLD | 1C | 5 |
| QUAMSID | 28 | |
| QUAMMSD | 1D | 8 |
| QUAMSMMS | 1D | 10 |
| QUAMSNUM | 28 | |
| QUAMSQUI | 1C | 4 |
| QUAMSSSM | 1D | 80 |
| QUAMSTALLED | 1E | 80 |
| QUAMSTAT | 1C | |
| QUAMSTA1 | 1C | |
| QUAMSTA2 | 1D | |
| QUAMSTA3 | 1E | |
| QUAMSTKN | 4C | |
| QUAMSTRM | 1D | 40 |
| QUAMSYS | 20 | |
| QUAMTOD | 34 | |
| QUAMTOKN | 14 | |
| QUAMTYPE | 0 | |
| QUAMUDAT | 48 | |
| QUAMUSLN | 3C | |
| QUAMUSOF | 40 | |
| QUASACTV | 1C | 40 |
| QUASCLID | 25 | |
| QUASCLNU | 27 | 80 |
| QUASCLST | 27 | |

| Name | Hex Offset | Hex Value |
|--------------------------|------------|-----------|
| QUASCLUP | 1C | 4 |
| QUASCPUID | 2A | |
| QUASFLAGS | 28 | |
| QUASINTV | C | |
| QUASLEN | 2 | |
| QUASLENG | 27 | 28 |
| QUASLOCL | 1C | 8 |
| QUASLPAR | 28 | 1 |
| QUASLPARNUM | 29 | |
| QUASMODELNUM | 2C | |
| QUASNAME | 4 | |
| QUASNUM | 20 | |
| QUASOPIN | 10 | |
| QUASSERIALNUM | 2A | |
| QUASSID | 20 | |
| QUASSSTAT | 1C | |
| QUASSUM | 1C | 20 |
| QUASSUTO | 14 | |
| QUASSYPT | 1C | 10 |
| QUASTR | 0 | |
| QUASTRALLOWAUTOALT | 22 | 10 |
| QUASTRALTER | 118 | |
| QUASTRALTERCHGEMC | 119 | 20 |
| QUASTRALTERCHGRATIO | 119 | 40 |
| QUASTRALTERCHGSIZE | 119 | 80 |
| QUASTRALTERFLG1 | 118 | |
| QUASTRALTERFLG2 | 119 | |
| QUASTRALTERMINELEMENT | 11B | |
| QUASTRALTERMINEMC | 126 | |
| QUASTRALTERMINENTRY | 11A | |
| QUASTRALTERNEW | 119 | 10 |
| QUASTRALTEROLD | 119 | 8 |
| QUASTRALTEROPSTART | 118 | 40 |
| QUASTRALTEROPSTOP | 118 | 20 |
| QUASTRALTERPGMSTART | 118 | 10 |
| QUASTRALTERPGMSTOP | 118 | 8 |
| QUASTRALTERRATIO | 119 | 1 |
| QUASTRALTERREBLDSTOP | 118 | 4 |
| QUASTRALTERSTOP | 118 | 80 |
| QUASTRALTERSYSSTART | 118 | 2 |
| QUASTRALTERSYSSTOP | 118 | 1 |
| QUASTRALTERTELEMENTRATIO | 122 | |
| QUASTRALTERTEMCSTGPCT | | |

| Name | Hex Offset | Hex Value |
|----------------------------|------------|-----------|
| | 124 | |
| QUASTRALTERTENTRYRATIO | 120 | |
| QUASTRALTERTSIZE | 11C | |
| QUASTRAUTOVERSION | 15C | |
| QUASTRCF | 0 | |
| QUASTRCF# | 38 | |
| QUASTRCFACCESSTIMEMAXIMUM | E | |
| QUASTRCFACCESSTIMENOLIMIT | D | 40 |
| QUASTRCFACT | C | 80 |
| QUASTRCFDUMPTBL | C | 4 |
| QUASTRCFDUPALTERDEFER | D | 10 |
| QUASTRCFDUPALTERINPROGRESS | D | 8 |
| QUASTRCFFLG | C | |
| QUASTRCFFLG2 | D | |
| QUASTRCFHOLD | C | 8 |
| QUASTRCFID | 14 | |
| QUASTRCFLEN | 2 | |
| QUASTRCFLENG | 40 | 48 |
| QUASTRCFLOGICALVERSION | 48 | |
| QUASTRCFMAXCONN | 3C | |
| QUASTRCFNAME | 4 | |
| QUASTRCFND | 10 | |
| QUASTRCFNOSYSCON | D | 20 |
| QUASTRCFO | 3C | |
| QUASTRCFPHYSICALVERSION | 34 | |
| QUASTRCFRDATALISTSPERCONN | 50 | |
| QUASTRCFREBLDNEW | C | 20 |
| QUASTRCFREBLDOLD | C | 40 |
| QUASTRCFSTRDUMPID | 3E | |
| QUASTRCFSTRFAIL | D | 80 |
| QUASTRCFSTRAN | C | 10 |
| QUASTRCFTYP | 0 | |
| QUASTRCFVERSION | 34 | |
| QUASTRCF1 | 0 | |
| QUASTRCF1_LEN | 51 | 88 |
| QUASTRCONNEXTRA | 1E | |
| QUASTRCONNEXTRA# | 20 | |
| QUASTRDUPLEXALLOWED | 22 | 80 |
| QUASTRDUPLEXENABLED | 22 | 40 |
| QUASTREXTRA#STR | 6C | |
| QUASTRFLG | 22 | |

IXCYQUAA Cross Reference

| Name | Hex Offset | Hex Value |
|------------------------------|---------------|--------------|
| QUASTRFULLTHRESHOLD | 113 | |
| QUASTRGRPNAME | | |
| QUASTRINHWDW | 14C | |
| QUASTRINHWDWON | 1C | 80 |
| QUASTRINITSIZE | | |
| | 24 | |
| QUASTRLEN | 2 | |
| QUASTRLENG | 130 | 138 |
| QUASTRMINSIZE | | |
| | 114 | |
| QUASTRNAME | 4 | |
| QUASTRPENDSIZE | | |
| | 10C | |
| QUASTRPL | 0 | |
| QUASTRPL# | 28 | |
| QUASTRPLLEN | 2 | |
| QUASTRPLLENG | 8 | 10 |
| QUASTRPLNAME | 8 | |
| QUASTRPLO | 2C | |
| QUASTRPLRSVD | 4 | |
| QUASTRPLTYP | 0 | |
| QUASTRPL1 | 0 | |
| QUASTRPL1_LEN | | |
| | 10 | 30 |
| QUASTRPOLNAME | | |
| | 48 | |
| QUASTRPOPCFNAME | | |
| | 154 | |
| QUASTRPREFENFORCE | | |
| | 22 | 20 |
| QUASTRPROCESSMETHOD | | |
| | 110 | 1 |
| QUASTRREBLDALLOCATE | | |
| | 70 | 2 |
| QUASTRREBLDATTACH | | |
| | 70 | 1 |
| QUASTRREBLDCLEANUP | | |
| | 70 | 20 |
| QUASTRREBLDCOMPLETE | | |
| | 70 | 40 |
| QUASTRREBLDCOPY | | |
| | 71 | 80 |
| QUASTRREBLDCOPYSTOP | | |
| | 71 | 40 |
| QUASTRREBLDDUPLEX | | |
| | 110 | 80 |
| QUASTRREBLDDUPLEXESTABLISHED | | |
| | 70 | 8 |
| QUASTRREBLDFLAGS | | |
| | 110 | |
| QUASTRREBLDINFO | | |
| | 70 | |
| QUASTRREBLDPCTLOSSCONN | | |
| | 148 | |
| QUASTRREBLDPHASE | | |
| | 70 | |
| QUASTRREBLDPHASECONFIRMSTNG | | |
| | 84 | |
| QUASTRREBLDPHASE1 | | |
| | 70 | |
| QUASTRREBLDPHASE2 | | |
| | 71 | |

| Name | Hex Offset | Hex Value |
|---------------------------------|---------------|--------------|
| QUASTRREBLDPHASE3 | | |
| | 72 | |
| QUASTRREBLDPHASE4 | | |
| | 73 | |
| QUASTRREBLDQUIESCE | | |
| | 70 | 80 |
| QUASTRREBLDQUIESCESTOP | | |
| | 71 | 20 |
| QUASTRREBLDSTARTCONN | | |
| | 74 | 40 |
| QUASTRREBLDSTARTLOSTCCF | | |
| | 74 | 20 |
| QUASTRREBLDSTARTOPER | | |
| | 74 | 80 |
| QUASTRREBLDSTARTPOLICY | | |
| | 74 | 8 |
| QUASTRREBLDSTARTRSN | | |
| | 74 | |
| QUASTRREBLDSTARTSTRFAIL | | |
| | 74 | 10 |
| QUASTRREBLDSTARTUCODE | | |
| | 78 | |
| QUASTRREBLDSTARTUP | | |
| | 70 | 4 |
| QUASTRREBLDSTOP | | |
| | 70 | 10 |
| QUASTRREBLDSTOPCONN | | |
| | 7C | 40 |
| QUASTRREBLDSTOPDUMPSER | | |
| | 7E | 40 |
| QUASTRREBLDSTOPDUPLEXOUTOFSYNCH | | |
| | 7E | 10 |
| QUASTRREBLDSTOPDUPLEXREQFAILED | | |
| | 7E | 20 |
| QUASTRREBLDSTOPINSUFFCONN | | |
| | 7C | 20 |
| QUASTRREBLDSTOPINSUFFCONNCHGCON | | |
| | 7D | 10 |
| QUASTRREBLDSTOPLOSSCONN | | |
| | 7D | 20 |
| QUASTRREBLDSTOPLOSTCCFNEW | | |
| | 7C | 8 |
| QUASTRREBLDSTOPLOSTCCFOLD | | |
| | 7C | 4 |
| QUASTRREBLDSTOPNOBETTERCONN | | |
| | 7C | 10 |
| QUASTRREBLDSTOPOPER | | |
| | 7C | 80 |
| QUASTRREBLDSTOPPOLICY | | |
| | 7D | 80 |
| QUASTRREBLDSTOPPOPCFNOTSUITABLE | | |
| | 7D | 8 |
| QUASTRREBLDSTOPRSN | | |
| | 7C | |
| QUASTRREBLDSTOPRSN1 | | |
| | 7C | |
| QUASTRREBLDSTOPRSN2 | | |
| | 7D | |
| QUASTRREBLDSTOPRSN3 | | |
| | 7E | |
| QUASTRREBLDSTOPSTRFAIL | | |
| | 7D | 40 |
| QUASTRREBLDSTOPSTRFAILNEW | | |
| | 7C | 2 |
| QUASTRREBLDSTOPSTRFAILOLD | | |

| Name | Hex Offset | Hex Value |
|-------------------------------|---------------|--------------|
| QUASTRREBLDSTOPSYSGDPHASEFAIL | 7C | 1 |
| QUASTRREBLDSTOPCODE | 7E | 80 |
| QUASTRREBLDSWITCHINPROGRESS | 80 | |
| QUASTRREBUILDPERCENT | 110 | 40 |
| QUASTRREQ#CONN | 23 | |
| QUASTRREQ#STR | 64 | |
| QUASTRRSVD | 60 | |
| QUASTRRSVD2 | 111 | |
| QUASTRSETTIME | 130 | |
| QUASTRSIZE | 58 | |
| QUASTRSTALTER | 14 | |
| QUASTRSTATE | 1A | 8 |
| QUASTRSTATE1 | 18 | |
| QUASTRSTATE2 | 18 | |
| QUASTRSTATE3 | 19 | |
| QUASTRSTATE4 | 1A | |
| QUASTRSTDPEND | 1B | |
| QUASTRSTINCLEANUP | 18 | 80 |
| QUASTRSTINPOLDEF | 1A | 4 |
| QUASTRSTREBLD | 1B | 80 |
| QUASTRSTREBLDSTOP | 1A | 20 |
| QUASTRSTSDISP | 1A | 10 |
| QUASTRSTTOBECHANGED | 1A | 80 |
| QUASTRSTTOBEDELETED | 18 | 20 |
| QUASTRSYS | 18 | 40 |
| QUASTRSYS_LEN | 0 | |
| QUASTRSYSALLOCATING | 14 | 40 |
| QUASTRSYSATTACHED | 10 | 80 |
| QUASTRSYSATTACHING | 10 | 20 |
| QUASTRSYSCOPYFAILED | 10 | 40 |
| QUASTRSYSCOPYSTOPPED | 10 | 8 |
| QUASTRSYSCOPYSTOPPING | 10 | 2 |
| QUASTRSYSCOPYWORKING | 10 | 4 |
| QUASTRSYSFLAGS | 10 | 10 |
| QUASTRSYSFLAGS1 | 10 | |
| QUASTRSYSFLAGS2 | 10 | |
| QUASTRSYSFLAGS3 | 11 | |

| Name | Hex Offset | Hex Value |
|--------------------------------|---------------|--------------|
| QUASTRSYSFLAGS4 | 12 | |
| QUASTRSYSLEN | 13 | |
| QUASTRSYSNAME | 2 | |
| QUASTRSYSNUM | 4 | |
| QUASTRSYSNUMRECS | C | |
| QUASTRSYSO | 128 | |
| QUASTRSYSSID | 12C | |
| QUASTRSYSTYP | C | |
| QUASTRTEXT | 0 | |
| QUASTRTYP | 48 | |
| QUASTRUPDIME | 0 | |
| QUASTRUSER | 50 | |
| QUASTRUSER# | 0 | |
| QUASTRUSERACT | 40 | |
| QUASTRUSERALLOWAUTO | 58 | 80 |
| QUASTRUSERALLOWDUPREBLD | 5C | 80 |
| QUASTRUSERALLOWREBLD | 58 | 1 |
| QUASTRUSERALTER | 58 | 2 |
| QUASTRUSERALTERALLOWED | 68 | |
| QUASTRUSERALTERFLG | 68 | 80 |
| QUASTRUSERALTERMINEMENT | 68 | |
| QUASTRUSERALTERMINEMC | 6B | |
| QUASTRUSERALTERMINENTRY | 7C | |
| QUASTRUSERALTERRATIO | 6A | |
| QUASTRUSERALTER2 | 68 | 40 |
| QUASTRUSERASID | 7C | |
| QUASTRUSERCADATA | 2E | |
| QUASTRUSERCFLEVEL | 8 | |
| QUASTRUSERCLEVEL | 38 | |
| QUASTRUSERCNAME | 20 | |
| QUASTRUSERCONID | 10 | |
| QUASTRUSERCONTOKEN | 5A | |
| QUASTRUSERCONVERSION | 6C | |
| QUASTRUSERDDATA | 4 | |
| QUASTRUSERDISC | 30 | |
| QUASTRUSERDISCFAILEDCONFSTRING | 58 | 10 |
| QUASTRUSERDISP | 88 | |

IXCYQUAA Cross Reference

| Name | Hex Offset | Hex Value |
|------------------------------|------------|-----------|
| QUASTRUSERDUAL | 58 | 8 |
| QUASTRUSERFAIL | 58 | 4 |
| QUASTRUSERFAILISOLSTR | 58 | 40 |
| QUASTRUSERFAILISOLSTRNEW | 5B | 80 |
| QUASTRUSERFAILISOLSTROLD | 5B | 40 |
| QUASTRUSERFLG1 | 5B | 20 |
| QUASTRUSERFLG2 | 58 | |
| QUASTRUSERFLG3 | 59 | |
| QUASTRUSERFLG4 | 5B | |
| QUASTRUSERINFOLEVEL | 5C | |
| QUASTRUSERINFOLEVEL1 | 2D | |
| QUASTRUSERJOB | 2D | 1 |
| QUASTRUSERLEN | 50 | |
| QUASTRUSERLENG | 2 | |
| QUASTRUSERNCSTR | 80 | 88 |
| QUASTRUSERNCSTRNEW | 59 | 80 |
| QUASTRUSERNCSTROLD | 59 | 40 |
| QUASTRUSERNONVOLREQ | 59 | 20 |
| QUASTRUSERO | 5B | 10 |
| QUASTRUSERRSVD | 44 | |
| QUASTRUSERRSVD2 | 5D | |
| QUASTRUSERSID | 80 | |
| QUASTRUSERSNUM | 28 | |
| QUASTRUSERSTKN | 28 | |
| QUASTRUSERSUSPEND | 48 | |
| QUASTRUSERSUSPENDFAIL | 5C | 20 |
| QUASTRUSERSYS | 5C | 10 |
| QUASTRUSERTERM | 40 | |
| QUASTRUSER1 | 58 | 20 |
| QUASTRUSER1_LEN | 0 | |
| QUASTRUSYNCCOMPLETED | 0 | |
| QUASTRUSYNCCOMPLETEDCOMPCODE | A8 | 100 |
| | E8 | |
| | 13C | |

| Name | Hex Offset | Hex Value |
|----------------------------|------------|-----------|
| QUASTRUSYNCCOMPLETEDUSTATE | EC | |
| QUASTRUSYNCCONFIRMSTNG | A4 | |
| QUASTRUSYNCCINFO | A4 | |
| QUASTRUSYNCCINFO2 | 138 | |
| QUASTRUSYNCCNEXT | C4 | |
| QUASTRUSYNCCNEXTCOMPCODE | 138 | |
| QUASTRUSYNCCNEXTUSTATE | C8 | |
| QUASTRXL | 0 | |
| QUASTRXL# | 30 | |
| QUASTRXLLEN | 2 | |
| QUASTRXLLENG | 8 | 18 |
| QUASTRXLNAME | 8 | |
| QUASTRXLO | 34 | |
| QUASTRXLRSD | 4 | |
| QUASTRXLTYP | 0 | |
| QUASTRXL1 | 0 | |
| QUASTRXL1_LEN | 18 | 38 |
| QUASTR1 | 0 | |
| QUASTR1_LEN | 164 | 1B8 |
| QUASTYPE | 0 | |
| QUASVER | 24 | |
| QUASYS | 0 | |
| QUASYS1 | 0 | |
| QUASYS1_LEN | 2E | 40 |
| QUATYPARMS | 0 | 30 |
| QUATYPARMS_LAST | 0 | B0 |
| QUATYPCF | 0 | 10 |
| QUATYPCF_LAST | 0 | 90 |
| QUATYPCFSC | 0 | 11 |
| QUATYPCFSC_LAST | 0 | 91 |
| QUATYPCFSTR | 0 | 12 |
| QUATYPCFSTR_LAST | 0 | 92 |
| QUATYPGRP | 0 | 0 |
| QUATYPGRP_LAST | 0 | 80 |
| QUATYPMEM | 0 | 1 |
| QUATYPMEM_LAST | 0 | 81 |
| QUATYPSTR | 0 | 20 |
| QUATYPSTR_LAST | 0 | A0 |
| QUATYPSTRCF | 0 | 23 |
| QUATYPSTRCF_LAST | 0 | A3 |
| QUATYPSTRPL | 0 | 21 |
| QUATYPSTRPL_LAST | 0 | A1 |
| QUATYPSTRSYS | 0 | 25 |
| QUATYPSTRSYS_LAST | 0 | A5 |
| QUATYPSTRU | 0 | 24 |
| QUATYPSTRU_LAST | 0 | A4 |

| Name | Hex Offset | Hex Value |
|---------------------------|---------------|--------------|
| QUATYPSTRXL | 0 | 22 |
| QUATYPSTRXL_LAST | 0 | A2 |
| QUATYPSYS | 0 | 2 |
| QUATYPSYS_LAST | 0 | 82 |
| QUREQFEATURES | 0 | |
| QUREQFEATURES1 | 0 | |
| QUREQFEATURES1A | 0 | |
| QUREQFEATURES1B | 1 | |
| QUREQFEATURES1C | 2 | |
| QUREQFEATURES1D | 3 | |
| QUREQRFDEMEBUFFERSIZE | 0 | 1 |
| QUREQRFDETAILEDXCFSTATUS | 1 | 80 |
| QUREQRFIXLCONNSUSPENDFAIL | 0 | 4 |
| QUREQRFIXLMGHWSTATCF | 0 | 10 |
| QUREQRFIXLRTRDATATYPE | 0 | 8 |
| QUREQRFPROXYRESPONSE | 0 | 80 |
| QUREQRFREBUILDDUPLEX | 0 | 20 |
| QUREQRFREBUILDPCTLOSSCONN | 0 | 40 |
| QUREQRFRETURNRDRDATATYPE | 0 | 2 |
| QUREQRFUSYNCCOMPCODE | 0 | 40 |

IXCYSEPL Programming Interface information

Programming Interface information

IXCYSEPL

End of Programming Interface information

IXCYSEPL Heading Information

Common Name: Status Exit Parameter List
Macro ID: IXCYSEPL
DSECT Name: SEPL
Owning Component: Cross System Coupling Facility (SCXCF)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: 245
 Key: 0
 Residency: Above the 16 megabyte line.
Size: 24 bytes
Created by: IXCS3DIE
Pointed to by: R1 on entry to the status exit
Serialization: None required
Function: Maps the parameters passed to the status exit

IXCYSEPL Map

| Offsets | | | | | |
|---------|------|------------|-----|------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | SEPL | |
| 0 | (0) | BITSTRING | 8 | SEPLMDAT | Member data value provided via IXCJOIN |
| 8 | (8) | ADDRESS | 4 | SEPLSTAT | Application status field address |
| 12 | (C) | BITSTRING | 1 | SEPLSTCH | The state change that the monitor is checking for: 0=status update resume, 8=status update missing. @D1A |
| 13 | (D) | BITSTRING | 3 | | Free space for alignment @D2A |
| 16 | (10) | BITSTRING | 8 | SEPLMTOK | Memtoken of affected member @D2A |
| 16 | (10) | X'18' | 0 | SEPLEN | "*-SEPL" |

Comment

Declaration of constants for use in status exits - (SEPLSTCH)

End of Comment

| | | | | | |
|----|------|------|---|----------|--|
| 16 | (10) | X'0' | 0 | SEUPDRES | "0" Checking for status update resume |
| 16 | (10) | X'8' | 0 | SEUPDMIS | "8" Checking for status update missing |

IXCYSEPL Cross Reference

| Name | Hex Offset | Hex Value |
|----------|------------|-----------|
| SEPL | 0 | |
| SEPLEN | 10 | 18 |
| SEPLMDAT | 0 | |
| SEPLMTOK | 10 | |
| SEPLSTAT | 8 | |
| SEPLSTCH | C | |
| SEUPDMIS | 10 | 8 |
| SEUPDRES | 10 | 0 |

IXCYWRE Programming Interface information

Programming Interface information

IXCYWRE

End of Programming Interface information

IXCYWRE Heading Information

Common Name: Automatic Restart Manager Workload-Restart-Exit Parameter List
Macro ID: IXCYWRE
DSECT Name: WRE
Owning Component: Cross System Coupling Facility (SCXCF)
SUBCOMPONENT: Automatic Restart Manager (ARM)
Eye-Catcher ID: WRE
Offset: 0
Length: 4 bytes
Storage Attributes: Subpool: 203
Key: 0
Size: variable: 16 + (number-of-elements x 16) bytes
Created by: IXCA3XRP
Pointed to by: Register 1 on entry
Serialization: None
Function: Mapping of parameter list passed to an installation's Workload Restart Exit routine

IXCYWRE Map

| Offsets | | | | | |
|---------|-----|------------|-----|---------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | WRE | |
| 0 | (0) | CHARACTER | 16 | WREHEADER (0) | Fixed-length section of WRE parameter list |
| 0 | (0) | CHARACTER | 4 | WREACRONYM | Eyecatcher C'WRE ' |
| 4 | (4) | CHARACTER | 8 | WREDEADSYSTEMNAME | Name of system that has left the sysplex |
| 12 | (C) | BITSTRING | 4 | WRENUMBEROFELEMENTS | Number of elements being restarted on this system |

| Offsets | | | | | |
|---------|-----|------------|-----|-----------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | WREELEMENTNAMES | |
| 0 | (0) | CHARACTER | 16 | | Names of the elements being restarted on this system |

Comment

Eyecatcher for WREAcronym field

End of Comment

| | | | | | |
|----|------|-----------|---|---------------|------------|
| 16 | (10) | CHARACTER | 4 | WREEYECATCHER | Eyecatcher |
|----|------|-----------|---|---------------|------------|

IXGANSAA Programming Interface information

Programming Interface information

IXGANSAA

End of Programming Interface information

IXGANSAA Heading Information

Common Name: Answer area mapping macro
Macro ID: IXGANSAA
DSECT Name: ANSAA
Owning Component: System Logger (SCLOG)
Eye-Catcher ID: None
Storage Attributes: Main Storage: Caller's storage or function dynamic storage
Size: 40 bytes
 ANSAA -- X'0028' bytes
Created by: Caller
Pointed to by: Caller
Serialization: None
Function: Answer area mapping.

IXGANSAA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-----------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | ANSAA | |
| 0 | (0) | CHARACTER | 40 | ANSAA_BASE (0) | |
| 0 | (0) | SIGNED | 4 | ANSAA_PREFERRED_SIZE | Answer area preferred size |
| 4 | (4) | SIGNED | 4 | ANSAA_ASYNC_RETCODE | When SYNCECB is specified and the request is processed asynchronously, the return code is placed in this field |
| 8 | (8) | SIGNED | 4 | ANSAA_ASYNC_RSNCODE | When SYNCECB is specified and the request is processed asynchronously, the reason code is placed in this field |
| 12 | (C) | CHARACTER | 16 | ANSAA_DIAGNOSTICS (0) | |
| 12 | (C) | SIGNED | 4 | ANSAA_DIAG1 | Additional diagnostic data |
| 16 | (10) | SIGNED | 4 | ANSAA_DIAG2 | Additional diagnostic data |
| 20 | (14) | CHARACTER | 4 | ANSAA_DIAG3 (0) | |
| 20 | (14) | SIGNED | 2 | ANSAA_MODID | Additional diagnostic data |
| 22 | (16) | SIGNED | 2 | ANSAA_LOCATION | Additional diagnostic data |
| 24 | (18) | SIGNED | 4 | ANSAA_DIAG4 | Additional diagnostic data |
| 28 | (1C) | CHARACTER | 8 | ANSAA_GAPS (0) | Gap information |
| 28 | (1C) | CHARACTER | 8 | ANSAA_GAPS_NEXT_BLKID | Block id of the first valid youngest block |
| 36 | (24) | CHARACTER | 4 | ANSAA_FLAGS (0) | Flags |
| 36 | (24) | BITSTRING | 1 | ANSAA_FLAGS1 (0) | |
| | | 1... | | ANSAA_TRUNCATED | "X'80" If set, answer area length specified is too small to contain all data to be returned. At least 40 bytes have been returned. See preferred size field |
| | | .1... | | ANSAA_BLKFROMINACTIVE | "X'40" When ON, indicates that the log block returned from the IXGBRWSE request came from the inactive portion of the log stream. For Ixgbrwse MultiBlock=Yes requests, ON indicates that at least one log block returned in the buffer came from the inactive portion of the log stream. Flag Ixgbrmlt_FromInactive (Ixgbrmlt) indicates which log blocks were in the inactive portion. When OFF, the log block returned from the IXGBRWSE request came from the active portion of the log stream. For Ixgbrwse multiblock requests, OFF indicates that none of the log blocks returned in the buffer came from the inactive portion of the log stream. Flag is set only for IXGBRWSE requests that result in a log block being returned. |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|---------------------------------|---|
| Dec | Hex | | | | |
| | | ..1. | | ANSAA_DYNMGMTOFENTRYTOELEACTIVE | "X'20" When ON, indicates that the logger is dynamically managing the structure's entry to element ratio. Therefore, the average buffer size value specified on the structure definition and returned on a IXGCONN request is not being used to control the structure's entry to element ratio. This field is set for IXGCONN requests, but it is undefined when Ansaas_DasdOnlyLogStream is on. |
| | | ...1 | | ANSAA_DASDONLYLOGSTREAM | "X'10" When ON, indicates that this is a DASD only log stream, i.e. a coupling facility list structure is not being used for this log stream. This field is set for IXGCONN requests. |
| | | 1... | | ANSAA_BROWSEMULTIBLOCK | "X'08" When ON, indicates that this level of Logger supports the IXGBRWSE MULTIBLOCK=YES requests. When OFF, indicates MULTIBLOCK=YES requests are not supported. This field is valid only on IXGBRWSE REQUEST=START invocations. |
| | |1.. | | ANSAA_BLKFROMDASD | "X'04" When ON, indicates that the log block returned from the IXGBRWSE request was read from a logstream DASD offload data set. For Ixgbrowse MultiBlock=Yes requests, ON indicates that at least one log block returned in the buffer was read from a logstream DASD offload data set. Flag Ixgbrowse FromDasd (Ixgbrowse) indicates which log blocks were read from DASD. When OFF, the log block returned from the IXGBRWSE request was read from the logstream interim (structure/local buffer) storage. For Ixgbrowse multiblock requests, OFF indicates that none of the log blocks returned in the buffer were read from the logstream offload data sets. Flag is set only for IXGBRWSE requests that result in a log block being returned. |
| 37 | (25) | BITSTRING | 1 | ANSAA_FLAGS2 | |
| 38 | (26) | BITSTRING | 1 | ANSAA_FLAGS3 | |
| 39 | (27) | BITSTRING | 1 | ANSAA_FLAGS4 | |
| 39 | (27) | X'28' | 0 | ANSAA_LEN | "*-ANSAA" |

IXGANSAA Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|---------------------------------|------------|-----------|-----------------------|------------|-----------|
| ANSAA | 0 | | ANSAA_FLAGS2 | 25 | |
| ANSAA_ASYNCH_RETCODE | 4 | | ANSAA_FLAGS3 | 26 | |
| ANSAA_ASYNCH_RSNCODE | 8 | | ANSAA_FLAGS4 | 27 | |
| ANSAA_BASE | 0 | | ANSAA_GAPS | 1C | |
| ANSAA_BLKFROMDASD | 24 | 4 | ANSAA_GAPS_NEXT_BLKID | 1C | |
| ANSAA_BLKFROMINACTIVE | 24 | 40 | ANSAA_LEN | 27 | 28 |
| ANSAA_BROWSEMULTIBLOCK | 24 | 8 | ANSAA_LOCATION | 16 | |
| ANSAA_DASDONLYLOGSTREAM | 24 | 10 | ANSAA_MODID | 14 | |
| ANSAA_DIAGNOSTICS | C | | ANSAA_PREFERRED_SIZE | 0 | |
| ANSAA_DIAG1 | C | | ANSAA_TRUNCATED | 24 | 80 |
| ANSAA_DIAG2 | 10 | | | | |
| ANSAA_DIAG3 | 14 | | | | |
| ANSAA_DIAG4 | 18 | | | | |
| ANSAA_DYNMGMTOFENTRYTOELEACTIVE | 24 | 20 | | | |
| ANSAA_FLAGS | 24 | | | | |
| ANSAA_FLAGS1 | 24 | | | | |

IXGBRMLT Programming Interface information

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| Programming Interface information |
| <p><u>IXGBRMLT</u></p> |
| End of Programming Interface information |

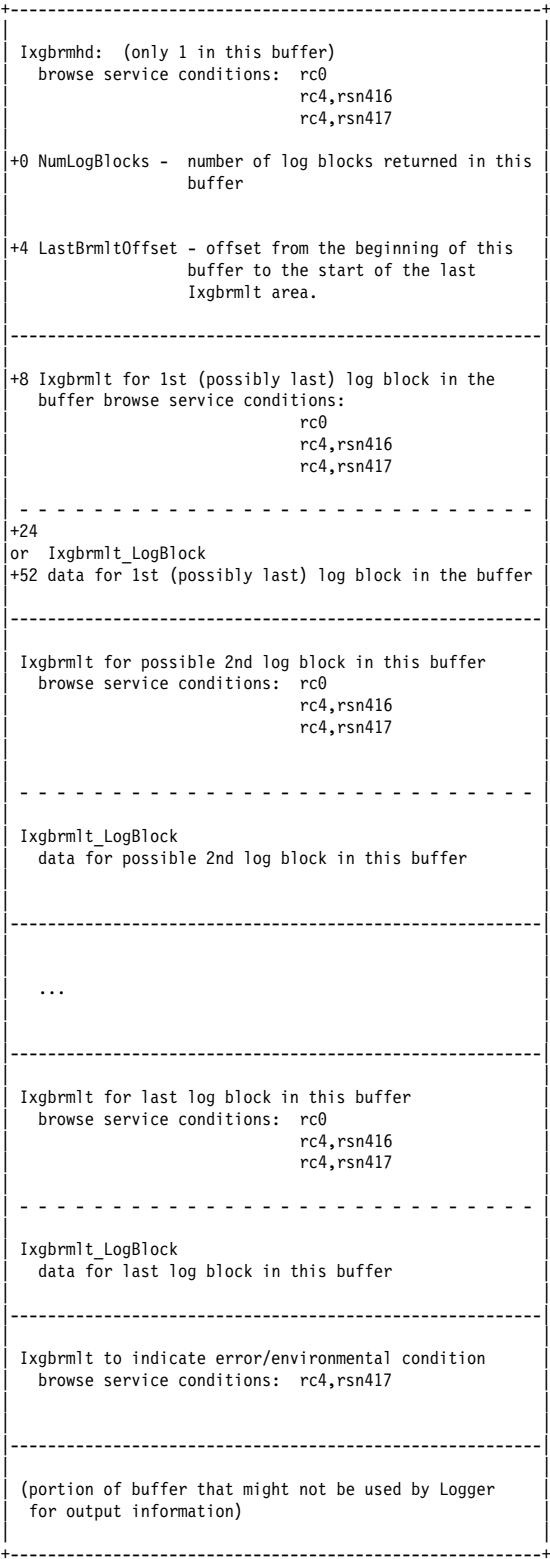
IXGBRMLT Heading Information

| | |
|----------------------------|---|
| Common Name: | Browse Multi-block Output Mapping Macro |
| Macro ID: | IXGBRMLT |
| | ACRONYM: |
| DSECT Name: | IXGBRMHD, IXGBRMLT, and IXGBRMLT_LOGBLOCK |
| Owning Component: | System Logger (SCLOG) |
| Eye-Catcher ID: | None |
| Storage Attributes: | Subpool: Determined by browse invoker Key: Determined by browse invoker Residency: ANY |
| Size: | IXGBRMHD: 8 bytes ('08'X) IXGBRMLT: 16 bytes ('10'X) when RETBLOCKINFO=NO 44 bytes ('2C'X) when RETBLOCKINFO=YES IXGBRMLT_LOGBLOCK: determined by Ixgwrite BlockLen value (contained in field Ixgbrmlt_BlockLen) Frequency: IXGBRMHD: 1 in the caller's buffer area IXGBRMLT: 1 per logstream log block returned on a browse MULTIBLOCK request (rc0 or rc4,rsn416). However, note that there will be one additional area at the end of the log blocks to indicate the final return/reason code condition for rc4,rsn417. IXGBRMLT_LOGBLOCK: 1 per logstream log block returned |
| Created by: | Caller of Logger browse multiblock service provides the area and Logger fills it in. |
| Pointed to by: | IXGBRMHD: - This area is based on the Buffer area address provided on the Ixgbrowse request. IXGBRMLT: - The first Ixgbrmlt area is based on the Addr(Ixgbrmhd_FirstBrmlt) - Subsequent Ixgbrmlt area's basing can be established by adding the current Ixgbrmlt's field Ixgbrmlt_NextOffset to the beginning of the Buffer area (Buffer parameter). - The last Ixgbrmlt area's basing can be established by adding the field Ixgbrmhd_LastBrmltOffset to the Buffer address. IXGBRMLT_LOGBLOCK: - When the Ixgbrmlt_DataReturned indicator is on in the current Ixgbrmlt area, then the start of the corresponding Ixgbrmlt_LogBlock (log block area) should be calculated by using the address of the current Ixgbrmlt area and add in the value from the field Ixgbrmlt_Length. |

Serialization: For IXGBRWSE service rc4,rsn0401 responses, System Logger maintains latent binds to the storage location specified by the BUFFER parameter.

IXGBRMLT Map

Function: Maps the data returned in invoker's buffer on a IXGBRWSE READCURSOR request with MULTIBLOCK(YES): BUFFER



IXGBRMLT Map

| Offsets | | | | | |
|---------|-----|------------|-----|--------------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 8 | IXGBRMHD | Browse multi-block output area header mapping |
| 0 | (0) | CHARACTER | 8 | IXGBRMHD_START | |
| 0 | (0) | UNSIGNED | 4 | IXGBRMHD_NUMLOGBLOCKS | Contains a count of the number of log blocks returned in this buffer. |
| 4 | (4) | UNSIGNED | 4 | IXGBRMHD_LASTBRMLTOFFSET | Offset within buffer to start of last lxgbrmlt in this buffer. - If the lxgbrwse service returns rc4,rsn416, then this offset will be to the last lxgbrmlt that corresponds to the last returned log block in this buffer. - If the lxgbrwse service returns rc4,rsn417, then this offset will be to the last lxgbrmlt in this buffer that contains the error information from the service. No log block data is returned with this last lxgbrmlt area. |
| 8 | (8) | CHARACTER | 0 | IXGBRMHD_FIRSTBRMLT | Starting point of first lxgbrmlt area |

| Offsets | | | | | |
|---------|------|------------|-----|-----------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 44 | IXGBRMLT | Browse multi-block output area per returned log block |
| 0 | (0) | CHARACTER | 44 | IXGBRMLT_START | |
| 0 | (0) | CHARACTER | 16 | IXGBRMLT_COMMON | Common area |
| 0 | (0) | UNSIGNED | 2 | IXGBRMLT_LENGTH | Length of lxgbrmlt area |
| 2 | (2) | BITSTRING | 1 | IXGBRMLT_VERSION | Version number |
| 3 | (3) | BITSTRING | 1 | IXGBRMLT_FLAGS | Flag indicators: |
| | | 1... .. | | IXGBRMLT_DATARETURNED | When OFF, indicates service error condition rc4,rsn417. When ON, indicates that log block data follows this lxgbrmlt area. |
| | | .1.. .. | | IXGBRMLT_RETBLOCKINFO | When OFF, indicates return only information necessary to navigate the caller's buffer to obtain each returned log block, see area mapped by lxgbrmlt_Common When ON, indicates that along with the information necessary to navigate the caller's buffer to obtain each returned log block, Logger will also return the information mapped by lxgbrmlt_RetInfo. |
| | | ..1. | | IXGBRMLT_FROMINACTIVE | When OFF, the returned log block came from the active portion of the log stream. When ON, the returned log block came from the inactive portion of the log stream. |
| | | ...1 | | IXGBRMLT_FROMDASD | When OFF, the returned log block was read from the logstream interim (structure/local buffer) storage. When ON, the returned log block was read from a logstream DASD offload data set. |
| 4 | (4) | UNSIGNED | 4 | IXGBRMLT_RETCODE | Return code. Values are defined in IXGCON |
| 8 | (8) | UNSIGNED | 4 | IXGBRMLT_RSNCODE | Reason code. Values are defined in IXGCON |
| 12 | (C) | UNSIGNED | 4 | IXGBRMLT_NEXTOFFSET | Offset within buffer to start of next lxgbrmlt area. The basing for the next lxgbrmlt area can be established by adding this field to the start of the Buffer address. If this field is zero, then there are no more lxgbrmlt areas after this current lxgbrmlt area. |
| 16 | (10) | CHARACTER | 0 | IXGBRMLT_COMMONEND | End of lxgbrmlt common area |
| 16 | (10) | CHARACTER | 28 | * | |

IXGBRMLT Constants

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|---------------------|--|
| Dec | Hex | | | | |
| | | | | | Comment |
| | | | | | Ixgbrmlt_RetInfo - return block info area This area may or may not be provided. When the flag Ixgbrmlt_RetBlockInfo is set on, this area is included along with the Ixgbrmlt_Common area. The field content in Ixgbrmlt_RetInfo is valid under the following conditions (assuming Ixgbrmlt_RetBlockInfo has been set on): - when Ixgbrmlt_DataReturned is also set on all the fields in Ixgbrmlt_RetInfo will be set with the return data associated with the log block. |
| | | | | | End of Comment |
| 16 | (10) | CHARACTER | 28 | IXGBRMLT_RETINFO | Return Block Info area |
| 16 | (10) | UNSIGNED | 4 | IXGBRMLT_BLOCKLEN | The actual length of the log block as it was specified on the IXGWRITE request. Same as BLOCKSIZE for single IXGBRWSE request. |
| 20 | (14) | CHARACTER | 8 | IXGBRMLT_BLOCKID | Log block identifier |
| 28 | (1C) | CHARACTER | 16 | IXGBRMLT_TIMESTAMPS | Time Stamps for the log block, in STCK format |
| 28 | (1C) | CHARACTER | 8 | IXGBRMLT_GMT | GMT for log block |
| 36 | (24) | CHARACTER | 8 | IXGBRMLT_LOCAL | Local time for log block |
| 44 | (2C) | CHARACTER | 0 | IXGBRMLT_RETINFOEND | End of return info area |
| 16 | (10) | CHARACTER | 0 | * | Dummy Union section |
| 44 | (2C) | CHARACTER | 0 | IXGBRMLT_END | End of Ixgbrmlt mapping |

IXGBRMLT Constants

| Len | Type | Value | Name | Description |
|--|---------|-------|-------------------------|--|
| Comment | | | | |
| <p>These constants are used with the IXGBRMLT and IXGBRMHD mappings.</p> | | | | |
| End of Comment | | | | |
| 2 | DECIMAL | | IXGBRMHD_LEN | Length of header area |
| 2 | DECIMAL | | IXGBRMLT_CLEN | Length of Ixgbrmlt common area |
| 2 | DECIMAL | | IXGBRMLT_RLEN | Length of common area plus return info area |
| 2 | DECIMAL | | IXGBRMLT_LEN | Length of entire Ixgbrmlt area |
| 1 | HEX | 01 | IXGBRMLT_1ST_VERSION | First version for Ixgbrmlt |
| 1 | HEX | 01 | IXGBRMLT_LATEST_VERSION | Latest version for Ixgbrmlt End of constants |

IXGBRMLT Cross Reference

| Name | Hex Offset | Hex Value |
|--------------------------|-----------------------|----------------------|
| IXGBRMHD | 0 | |
| IXGBRMHD_FIRSTBRMLT | 8 | |
| IXGBRMHD_LASTBRMLTOFFSET | 4 | |
| IXGBRMHD_NUMLOGBLOCKS | 0 | |
| IXGBRMHD_START | 0 | |
| IXGBRMLT | 0 | |
| IXGBRMLT_BLOCKID | 14 | |
| IXGBRMLT_BLOCKLEN | 10 | |
| IXGBRMLT_COMMON | 0 | |
| IXGBRMLT_COMMONEND | 10 | |
| IXGBRMLT_DATARETURNED | 3 | 80 |
| IXGBRMLT_END | 2C | |
| IXGBRMLT_FLAGS | 3 | |
| IXGBRMLT_FROMDASD | 3 | 10 |
| IXGBRMLT_FROMINACTIVE | 3 | 20 |
| IXGBRMLT_GMT | 1C | |
| IXGBRMLT_LENGTH | 0 | |
| IXGBRMLT_LOCAL | 24 | |
| IXGBRMLT_NEXTOFFSET | C | |
| IXGBRMLT_RETBLOCKINFO | 3 | 40 |
| IXGBRMLT_RETCODE | 4 | |
| IXGBRMLT_RETINFO | 10 | |
| IXGBRMLT_RETINFOEND | 2C | |
| IXGBRMLT_RSNCODE | 8 | |
| IXGBRMLT_START | 0 | |
| IXGBRMLT_TIMESTAMPS | 1C | |
| IXGBRMLT_VERSION | 2 | |

IXGCMPL Programming Interface information

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| | Programming Interface information | |
| | <u>IXGCMPL</u> | |
| | End of Programming Interface information | |

IXGCMPL Heading Information

Common Name: Complete Exit Parameter List
Macro ID: IXGCMPL
DSECT Name: CMPL
Owning Component: System Logger (SCLOG)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: 229
Key: Key 0
Residency: Above 16 MB in virtual storage.
Size: x'0040' bytes
CMPL -- X'0040' bytes
Created by: SCLOG
Pointed to by: First word in parameter list provided to complete exit.
Serialization: None required
Function: Maps parameter list to the Complete Exit interface
to SCLOG connected users.

IXGCMPL Map

| Offsets | | | | | |
|---------|------|------------|-----|------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | CMPL | Complete exit parameter list |
| 0 | (0) | CHARACTER | 8 | CMPLREQDATA | Request-time user data |
| 8 | (8) | SIGNED | 4 | CMPLRETCODE | Return code. Values are defined in IXGCON. |
| 12 | (C) | SIGNED | 4 | CMPLRSNCODE | Reason code. Values are defined in IXGCON. |
| 16 | (10) | BITSTRING | 1 | CMPLFLAGS (0) | Flags |
| | | 1... | | CMPLCOMPLETED | "X'80" On => The request is complete, see Cmpl_UserInfo for additional information Off => The request is unknown, Cmpl_UserInfo is not filled in. |
| 17 | (11) | CHARACTER | 3 | | Reserved |
| 20 | (14) | BITSTRING | 46 | CMPLUSERINFO (0) | Data presented to the user when Cmpl_Completed is turned on |
| 20 | (14) | ADDRESS | 4 | CMPLANSAREA@ | Answer area address for this request |
| 24 | (18) | CHARACTER | 16 | CMPLSTREAMTOKEN | Connect token |
| 40 | (28) | CHARACTER | 16 | | Reserved |
| 56 | (38) | CHARACTER | 1 | CMPLEND (0) | End of CMPL |
| 56 | (38) | X'38' | 0 | CMPLLEN | "*-CMPL" |

IXGCMPL Cross Reference

| Name | Hex Offset | Hex Value |
|-----------------|------------|-----------|
| CMPL | 0 | |
| CMPLANSAREA@ | 14 | |
| CMPLCOMPLETED | 10 | 80 |
| CMPLEND | 38 | |
| CMPLFLAGS | 10 | |
| CMPLLEN | 38 | 38 |
| CMPLREQDATA | 0 | |
| CMPLRETCODE | 8 | |
| CMPLRSNCODE | C | |
| CMPLSTREAMTOKEN | 18 | |
| CMPLUSERINFO | 14 | |

IXGCON Programming Interface information

Programming Interface information

IXGCON

End of Programming Interface information

IXGCON Heading Information

Common Name: Constants for users of IXG services
Macro ID: IXGCON
DSECT Name: None
Owning Component: System Logger (SCLOG)
Eye-Catcher ID: None
Storage Attributes: Main Storage: N/A
Size: 0 bytes
Created by: N/A
Pointed to by: N/A
Serialization: None
Function: Provides a list of constants for users of IXG services.

IXGCON Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---|------|------------|-----|---------------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | | |
| 0 | (0) | X'0' | 0 | IXGRETCODEOK | "0" Service completes successfully |
| 0 | (0) | X'4' | 0 | IXGRETCODEWARNING | "4" Service completes successfully, however a warning condition was encountered |
| 0 | (0) | X'8' | 0 | IXGRETCODEERROR | "8" Service does not complete successfully because an error condition has been encountered |
| 0 | (0) | X'C' | 0 | IXGRETCODECOMPERROR | "12" Service does not complete successfully because a System Logger component error has been encountered |
| Comment | | | | | |
| Reason Codes -- IxgRsnCodeOk | | | | | |
| End of Comment | | | | | |
|  | .... | .... |  | IXGRSNCODEOK | "X'00000000" IXGBRWSE, IXGCONN, IXGDELET, IXGIMPRT, IXGINVNT, IXGOFFLD, IXGQUERY, IXGUPDAT and IXGWRITE requests. Explanation: Request processed successfully. |
| Comment | | | | | |
| Reason Codes -- IxgRsnCodeWarning (Note that the reason codes are of the form "xxxxYYYY" where "xxxx" is used to contain internal diagnostic information) | | | | | |
| End of Comment | | | | | |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEPROCESSEDASYNCH | "X'00000401" IXGWRITE, IXGBRWSE, IXGDELET requests. Explanation: The program specified MODE=ASYNCHNORESPONSE MODE=SYNCECB or MODE=SYNCEXIT and the request must be processed asynchronously. Action: IF MODE=ASYNCHNORESPONSE was specified completion will not be reported. If MODE=SYNCECB was specified, wait for the ECB specified on the ECB parameter to be posted, indicating that the request is complete. If MODE=SYNCEXIT was specified, the system logger will call the connection's completion exit once the request is complete. Check the ANSAA_ASYNCH_RETCODE and ANSAA_ASYNCH_RSNCODE fields, mapped by IXGANSAA, to determine whether the request completed successfully. |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|----------------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEWARNINGDEL | "X'00000402" IXGBRWSE request. Explanation: Environment error. The request completed successfully, but the data requested was deleted from the log stream via an IXGDELET request. The next available data in the log stream in the direction specified is returned. Action: Determine whether this is an acceptable condition for your application. If so, ignore this condition. If not, provide serialization or some other installation protocol to prevent deletes from being performed by other applications on the log stream during a browse session. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEWARNINGGAP | "X'00000403" IXGBRWSE request. Explanation: Environment error. The request completed successfully, but the data requested was unreadable. The next readable data in the log stream in the specified direction is returned. This condition could be caused by either an I/O error while attempting to read a log data set or a log data set deleted without using the IXGDELET interface. Action: The action necessary is completely up to the application, depending on how critical your data is. You can do one of the following: # Accept this condition and continue reading. # Stop processing the log all together. # Attempt to get the problem rectified, if possible, and then attempt to re-read the log data. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEDISCONNECTINPROGRESS | "X'00000404" IXGCONN request. Explanation: Environment error. The disconnect request is being completed asynchronously. The application has been disconnected from the log stream and the stream token is no longer valid. Action: The log stream cannot be deleted until the asynchronous portion of the disconnect processing completes. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEWARNINGLOSSOFDATA | "X'00000405" IXGWRITE and IXGBRWSE request. Explanation: Environment error. For an IXGBRWSE request: returned for READCURSOR requests only. A log block has been returned, but there may be log blocks permanently missing between this log block and the one previously returned. This condition occurs when a system and coupling facility fail and not all of the log data in the log stream could be recovered. For an IXGWRITE request: the request was successful however the log stream has previously lost log blocks. This condition occurs when a system and coupling facility fail and not all of the log data in the log stream could be recovered. Action: If your application cannot tolerate any data loss, stop issuing system logger services to this log stream, disconnect from the log stream, and reconnect to a new, undamaged log stream. You can continue using the log stream if your applications can tolerate data loss. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODECONNECTREBUILD | "X'00000406" IXGCONN request. Explanation: Environment error. The connect request was successful, but the log stream is temporarily unavailable because a coupling facility structure re-build is in progress. Action: Listen to the ENF signal 48, which will indicate either that the log stream is available because the re-build completed successfully or that the log stream is not available because the re-build failed. In the meantime, do not attempt to issue system logger services against the log stream. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODECONNPOSSIBLELOSSOFDATA | |

IXGCON Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|----------------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEDSDIRECTORYFULLWARNING | "X'00000407" IXGCONN and IXGWRITE request. Explanation: Environment error. The request was successful, but there may be log blocks permanently missing between this log block and the one previously returned. This condition occurs when a system or coupling facility fails and not all of the data in the log stream could be recovered. Action: If your application cannot tolerate any data loss, stop issuing system logger services to this log stream, disconnect from the log stream, and reconnect to a new, undamaged log stream. You can continue using the log stream if your applications can tolerate data loss. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEWOWWARNING | "X'00000408" IXGWRITE, IXGCONN & IXGIMPRT requests. Explanation: Environment error. The request was successful, but the log stream's DASD data set directory is full. System logger cannot offload any further data from the coupling facility structure to DASD. The system logger will continue to process IXGWRITE requests until this log stream's portion of the coupling facility structure becomes full. Action: Either delete enough data from the log stream to free up space in the log stream's data set directory so that offloading can occur or disconnect from the log stream. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEDUPLEXFAILUREWARNING | "X'00000409" IXGWRITE, IXGCONN and IXGIMPRT requests. Explanation: Environment error. The request was successful, but an error condition was detected by a previous offload of log data. System logger may not be able to offload any further data from the interim storage (e.g. coupling facility structure) to DASD. The system logger will continue to process IXGWRITE requests until this log stream's portion of the coupling facility structure or the staging data set becomes full. Action: Quiese activity against this log stream and disconnect. Connect to another log stream. Check log for message IXG301I to determine the cause of the error. If error was related to your installation, correct the error. Otherwise, search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODERMNOTCONNECTED | "X'0000040A" IXGWRITE & IXGIMPRT requests. Explanation: Environment error. The request was successful, but the system logger was unable to duplex log data to staging data sets, even though the log stream definition requested unconditional duplexing to staging data sets (STG_DUPLEX=YES, DUPLEXMODE=UNCOND). Action: If duplexing to staging data sets is required, disconnect from this log stream and connect to a log stream that can be duplexed to staging data sets. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODERMNOBLOCK | "X'0000040B" IXGDELET request. Explanation: Environment error. The log stream is identified as being resource manager managed. Delete requests are only honored on this system if the resource manager is also connected when delete requests are being monitored. At the time of the user's delete request, the resource manager was not connected to the log stream. Action: Start the resource manager on this system so that it can connect to the log stream and participate in the delete process OR specify FORCE=YES on the corresponding IXGDELET request |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODERMNOBLOCK | "X'0000040C" IXGDELET request. Explanation: The caller's delete request was overridden by the corresponding resource manager exit. The override information was successfully processed |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|----------------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODERMBADGAP | "X'0000040D" IXGDELETE request. Explanation: Program error. For an IXGDELETE request, the block identifier does not exist in the log stream. Either the value provided was never a valid location within the log stream or a prior IXGDELETE request deleted the portion of the log stream it referenced. This warning only occurs if a resource manager overrides the caller-specified block id. Action: Ensure that the value provided references an existing portion of the log stream. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODERMECFGAP | "X'0000040E" IXGDELETE request. Explanation: Environment error. The request failed because the requested log data was unreadable. This condition could be caused by either an I/O error while attempting to read a log data set or a log data set deleted without using the IXGDELETE interface. Action: For an IXGDELETE request, the block identifier of the first accessible block toward the youngest data in the log stream is returned in the ANSAA_GAPS_NEXT_BLKID field in the answer area mapped by the IXGANSAA macro. If appropriate, re-issue the IXGDELETE request using this block identifier. This warning only occurs if a resource manager overrides the caller-specified block id. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODERMEOFSGAP | "X'0000040F" IXGDELETE request. Explanation: Environment error. The request prematurely reached the beginning or the end of the log stream. The portion of the log stream from the requested log data to either the beginning or the end of the log stream (depending on the direction of the read) was unreadable. This condition may be caused by either an I/O error while trying to read a log data set, or a log data set deleted without using the IXGDELETE interface. Action: The action necessary is completely up to the application depending on how critical your data is. You can do one of the following: # Accept this condition and continue reading. # Stop processing the log all together. # Attempt to get the problem rectified, if possible, and then attempt to re-read the log data. This warning only occurs if a resource manager overrides the caller-specified block id. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODERMLOSSOFDATAGAP | "X'00000410" IXGDELETE request. Explanation: Environment error. The requested log data referenced a section of the log stream where log data is permanently missing. This condition occurs when a system or coupling facility is in recovery due to a failure, but not all of the log data in the log stream could be recovered. Action: If your application cannot tolerate any data loss, stop issuing system logger services to this log stream, disconnect from the log stream, and reconnect to a new, undamaged log stream. You can continue using the log stream if your applications can tolerate data loss. This warning only occurs if a resource manager overrides the caller-specified block id. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODERMABENDED | "X'00000411" IXGDELETE request. Explanation: Program error. While the resource manager was in control, it abended and it percolated to the System Logger. No log data were deleted. Action: Correct the resource manager exit. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODERMDDISABLED | "X'00000412" IXGDELETE request. Explanation: Environment error. The log stream is identified as being resource manager managed. The resource manager is connected to the log stream but is disabled because it percolated to the System Logger's recovery environment. Action: Cancel the resource manager address space, correct the problem in the exit and restart the resource manager address space OR specify FORCE=YES on the corresponding IXGDELETE request |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODERMINVALIDBLOCKID | |

IXGCON Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---|-----|------------|-----|----------------------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODERMSTOPPEDDELETE | "X'00000413" IXGDELETE request. Explanation: Program error. For an IXGDELETE request, the resource manager exit returned an override blockid that is greater than the block id specified on the original IXGDELETE request. Action: Ensure that the value returned from the resource manager exit is less than or equal to the specified on the corresponding IXGDELETE request. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODERMBADRETCODE | "X'00000415" IXGDELETE request. Explanation: The resource manager does not allow any log blocks to be deleted by this IXGDELETE request. Action: Determine why the resource manager is prohibiting deletes. Specify FORCE=YES to stop the resource manager exit from stopping the delete request |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEWARNINGMULTIBLOCK | "X'00000415" IXGDELETE request. Explanation: The resource manager provided an invalid return code in register 15. Acceptable values are 0, 4 and 8. Action: Determine why the resource manager is returning an unsupported return code |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEMULTIBLOCKERRORWARNING | "X'00000416" IXGBRWSE request. Explanation: Environment error. The request completed successfully, meaning some log block data was returned, but at least one of the log blocks returned in the buffer area encountered a warning return code condition. The fields Ixgbrmlt_RetCode and Ixgbrmlt_RsnCode can be checked as the log blocks are processed to determine which log block(s) encountered the warning condition. Action: The action necessary is completely up to the application, depending on how critical your data is. You can do one of the following: # Accept this condition and continue reading. # Stop processing the log all together. # Attempt to get the problem rectified, if possible, and then attempt to re-read the log data. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEMULTIBLOCKERRORWARNING | "X'00000417" IXGBRWSE request. Eplanation: Environment error. The request completed successfully, meaning some log block data was returned, but an error condition was encountered while attempting to read more data. For this reason code, there will be one more Ixgbrmlt area in the buffer than log blocks (Ixgbrmhd_NumLogBlocks). Use Ixgbrmhd_LastBrmltOffset to get to the last Ixgbrmlt area and use fields Ixgbrmlt_RetCode and Ixgbrmlt_RsnCode to determine the error condition that was encountered. An example of this condition is when some log block data is returned and an end of the log stream (eof) condition occurs. Action: The action necessary is completely up to the application, depending on how critical your data is. You can do one of the following: # Accept this condition and continue reading. # Stop processing the log all together. # Attempt to get the problem rectified, if possible, and then attempt to re-read the log data. |
| Comment | | | | | |
| Reason Codes -- IxgRetCodeError (Note that the reason codes are of the form "xxxxYYYY" where "xxxx" is used to contain internal diagnostic information) | | | | | |
| End of Comment | | | | | |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADPARMLIST | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|-----------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEXESERROR | "X'00000801" IXGCONN, IXGWRITE, IXGIMPRT, IXGBRWSE, IXGDELET & IXGINVNT IXGQUERY, IXGOFFLD, IXGUPDAT requests. Explanation: Program error. The parameter list is invalid. Either the parameter list storage is inaccessible, an invalid version of the macro was used or MF=(E,NOCHECK) or MF=(M,NOCHECK) options used to construct the parameter list and conflicting parameters specified. For example: AUTH=READ, IMPORTCONNECT=YES Action: Ensure that the storage area for the parameter list is accessible to the system logger for the duration of the request, and that the macro version is correct. The parameter list storage must be addressable in the caller's primary address space and in the same key as the caller. Insure that a valid parameter list is constructed when specifying the NOCHECK option |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADBUFFER | "X'00000802" IXGCONN, IXGWRITE, IXGINVNT, IXGBRWSE, IXGDELET, IXGUPDAT, IXGOFFLD, IXGQUERY, IXGIMPRT, IXGUPDAT Explanation: System error. A severe cross-system extended services (XES) error has occurred. Action: See ANSAA_DIAG1 for the XES return code and ANSAA_DIAG2 for the XES reason code. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODENOBLOCK | "X'00000803" IXGWRITE, IXGBRWSE, IXGIMPRT and IXGQUERY requests. Explanation: Program error. The virtual storage area specified on the BUFFER parameter is not addressable. On IXGBRWSE ReadCursor MultiBlock requests, the Buffer address must be on a word boundary. Action: Ensure that the storage area specified on the BUFFER parameter is accessible to system logger for the duration of the request. If the BUFFKEY parameter is specified, make sure it contains a valid key associated with the storage area. If BUFFKEY is not used, ensure that the storage is in the same key as the program at the time the logger service was requested. The storage must be addressable in the caller's primary address space. For IXGBRWSE ReadCursor MultiBlock requests, put the Buffer address on a word boundary. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEALLOCERROR | "X'00000804" IXGBRWSE & IXGDELET requests. Explanation: Program error. For an IXGBRWSE request, the block identifier or time stamp does not exist in the log stream. For an IXGDELET request, the block identifier does not exist in the log stream. Either the value provided was never a valid location within the log stream or a prior IXGDELET request deleted the portion of the log stream it referenced. Action: Ensure that the value provided references an existing portion of the log stream. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADSTMTOKEN | "X'00000805" IXGINVNT request. Explanation: Environment error. The system encountered a severe dynamic allocation error while processing data sets related to the log stream. ANSAA_DIAG1 of the answer area contains the dynamic allocation return code. ANSAA_DIAG2 of the answer area contains either the dynamic allocation error code or the DFSMS reason code. To obtain further information about the error, either check for message IXG251I, which is issued for data set allocation errors, or check for messages issued by the access method. Action: If the problem persists, search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center. |

IXGCON Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|-----------------------------|--|
| Dec | Hex | | | | |
| | | | | | "X'00000806" IXGCONN, IXGWRITE, IXGIMPRT, IXGBRWSE, IXGDELET, IXGQUERY, IXGOFFLD, IXGUPDAT requests. Explanation: Program error. One of the following occurred: # The stream token was not valid. # The specified request was issued from an address space other than the connector's address space. Action: Do one of the following: # Make sure that the stream token specified is valid. # Ensure that IXGWRITE, IXGBRWSE and IXGDELET requests were issued from the connector's address space. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADBRWToken | "X'00000807" IXGBRWSE request. Explanation: Program error. The browse token specified is not valid. Action: Ensure that the browse token being passed to the IXGBRWSE service is the same one returned from the IXGBRWSE REQUEST=START function. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEIOERROR | "X'00000808" IXGINVNT requests. Explanation: System error. A severe log data set I/O error has occurred. Action: Contact the IBM Support Center. Provide the return and reason code. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADWRITESIZE | "X'00000809" IXGWRITE & IXGIMPRT requests. Explanation: Program error. The size of the log block specified in the BLOCKLEN parameter is not valid. The value for BLOCKLEN must be greater than zero and less than or equal to the maximum buffer size (MAXBUFSIZE) defined in the LOGR policy for the structure associated with this log stream. Action: Ensure that the value specified on the BLOCKLEN parameter is greater than 0 and less than or equal to the MAXBUFSIZE which is returned on the log stream connect request. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEREQUESTLOCKED | "X'0000080A" IXGCONN, IXGWRITE, IXGIMPRT, IXGBRWSE, IXGDELET, IXGINVNT, IXGQUERY, IXGOFFLD, IXGUPDAT requests. Explanation: Program error. The program issuing the request is holding a lock. Action: Ensure that the program issuing the request is not holding a lock. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODENOSTREAM | "X'0000080B" IXGCONN & IXGINVNT requests. Explanation: Program error. The log stream name specified has not been defined in the LOGR policy. Action: Ensure that the required log stream name has been defined in the LOGR policy. If the definition appears to be correct, ensure that the application is passing the correct log stream name to the service. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODESTAGINGALLOCERROR | "X'0000080C" IXGCONN requests. Explanation: Environment error. The system encountered a severe dynamic allocation error with the staging data set. ANSAA_DIAG2 of the answer area contains either the dynamic allocation error code, SMS reason code, or media manager reason code. For more information about the error, check for either message IXG251I, which is issued for data set allocation errors, or check for messages issued by the access method. Action: If the problem persists, search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODENOSAFAUTH | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|-----------------------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODESTREAMDEFINED | "X'0000080D" IXGCONN and IXGINVNT requests. Explanation: Environment error. The user does not have correct SAF authorization for the request. # If the request was IXGCONN, either the caller is not authorized to connect to the log stream or the caller specified AUTH=WRITE when connecting to a log stream with only READ authority. # If the request was IXGINVNT, the caller is not authorized for one of the following: # The log stream being updated or defined. # The log stream named on the LIKE parameter. # The structure specified. Action: Do one of the following: # For an IXGCONN request, either define alter SAF authorization to the log stream or specify AUTH=READ. # For an IXGINVNT request, define SAF authorization for any log streams and structures specified. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADBUFSIZE | "X'0000080E" IXGINVNT request. Explanation: Program error. The log stream name specified already been defined in the LOGR inventory couple data set. Action: Do one of the following: # Use the existing definition for the log stream. # Change the name of the log stream being defined. # Delete the existing log stream definition from the inventory and then re-issue the IXGINVNT request to re-define it. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADBUFSIZE | "X'0000080F" IXGBRWSE, IXGQUERY requests. Explanation: Program error. The buffer specified on the BUFFER parameter is not large enough to contain the data being returned. For IXGBRWSE, the buffer area is not large enough to contain the the next log block in the logstream. No log block data is returned. For IXGQUERY, the buffer area must be at least as large as the length of the IXGQBUF mapping macro. Action: Obtain a buffer large enough to hold the data being returned and redrive the request. For IXGBRWSE, obtain a buffer of at least the length returned in the BLKSIZE parameter, then re-issue the request. For IXGQUERY, obtain a buffer the length of IXGQBUF and redrive the request. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODESTREAMINUSE | "X'00000810" IXGINVNT requests. Explanation: Environment error. You cannot alter or delete a log stream while an application is connected to it. Some attributes can be updated while there are connections provided the appropriate LOGR CDS and release levels are in effect. Action: Re-issue the request when there are no active connections to the log stream. Or move to the appropriate release and LOGR CDS format level. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADSTRNAME | "X'00000811" IXGCONN, IXGINVNT requests. Explanation: Environment error. The structure name specified on the STRUCTNAME parameter is not defined in the CFRM policy. Action: Make sure that the structure you want to specify is defined in the CFRM policy. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODELOGSTREAMRECOVERYFAILED | "X'00000812" IXGCONN request. Explanation: Environment error. The log stream could not be recovered. The system issues message IXG211E providing further information about the error. Action: If the problem persists, search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODELOGSTREAMDELETED | "X'00000813" IXGCONN request. Explanation: Environment error. The request to connect to the specified log stream failed because the log stream is being deleted. Action: Re-define the log stream in the LOGR policy and then re-issue the connect request. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODENOTAVAILFORIPL | |

IXGCON Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|--------------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODENOTENABLED | "X'00000814" IXGCONN, IXGWRITE, IXGIMPRT, IXGBRWSE, IXGDELET, IXGINVNT, IXGQUERY, IXGOFFLD, IXGUPDAT requests. Explanation: Environment error. The system logger address space is not available for the remainder of this IPL. The system issues messages about this error during system logger initialization. Action: See the explanation for system messages issued during system logger initialization. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADANSLEN | "X'00000815" IXGCONN, IXGWRITE, IXGIMPRT, IXGBRWSE, IXGDELET, IXGINVNT, IXGQUERY, IXGOFFLD, IXGUPDAT requests. Explanation: Program error. The program issuing the request is not enabled for I/O and external interrupts, so the request fails. Action: Make sure the program issuing the request is enabled for I/O and external interrupts. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADANSAREA | "X'00000816" IXGCONN, IXGWRITE, IXGIMPRT, IXGBRWSE, IXGDELET, IXGINVNT, IXGQUERY, IXGOFFLD, IXGUPDAT requests. Explanation: Program error. The answer area length (ANSLEN parameter) is not large enough. The system logger returned the required size in the Ansa_Prefered_Size field of the answer area, mapped by IXGANSAA macro. Action: Re-issue the request, specifying an answer area of the required size. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADBLOCKIDSTOR | "X'00000817" IXGWRITE, IXGIMPRT, IXGQUERY, IXGBRWSE, IXGDELET & IXGINVNT IXGOFFLD, IXGUPDAT requests. Explanation: Program error. The storage area specified on the ANSAREA parameter cannot be accessed. This may occur after the system logger address space has terminated. Action: Specify storage that is in the caller's primary address space and in the same key as the calling program at the time the system logger service was issued. This storage must be accessible until the request completes. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADBLOCKIDSTOR | "X'00000818" IXGWRITE & IXGBRWSE requests. Explanation: Program error. The storage area specified by BLOCKID cannot be accessed. Action: Ensure that the storage area is accessible to system logger for the duration of the request. The storage must be addressable in the caller's primary address space and in the same key as the caller. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODESRBMODE | "X'00000819" IXGCONN, IXGIMPRT & IXGINVNT IXGQUERY, IXGOFFLD & IXGUPDAT requests. Explanation: Program error. The calling program is in SRB mode, but task mode is the required dispatchable unit mode for this system logger service. Action: Make sure the calling program is in task mode. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEMAXSTREAMCONN | "X'0000081A" IXGCONN & IXGINVNT requests. Explanation: Environment error. This system has reached the limit for the maximum number of log streams that can be concurrently active. System logger allows 4096 concurrently active log streams per system. Action: Your work load may need to be planned to either consolidate log streams or balance system activity such that fewer log streams are needed during this time frame. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEPRIMARYNOTHOME | "X'0000081B" IXGCONN & IXGINVNT requests. Explanation: Program error. The primary address space does not equal the home address space. Action: Make sure that the primary address space equals the home address space when issuing this system logger service. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODENOTAUTHFUNC | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|---------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODERMNAMEBADSTATE | "X'0000081C" IXGWRITE, IXGDELET, IXGOFFLD, IXGUPDAT requests. Explanation: Program error. The program connected to the log stream with the AUTH=READ parameter and then tried to delete or write data. You cannot write or delete data when connected with read authority. Action: Issue the IXGCONN service with AUTH=WRITE authority and then re-issue this request. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEXESSTRNOTAUTH | "X'0000081D" IXGCONN requests Explanation: Program error. The program is attempting to connect to the log stream with the RMNAME keyword specified but is not executing system key, supervisor state. Action: Change to system key, supervisor state before issuing the connect request |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEXCDSERROR | "X'0000081E" IXGCONN and IXGINVNT requests. Explanation: Environment Error. The system logger address space does not have access authority to the coupling facility structure associated with the log stream specified. Action: Make sure the system logger address space has SAF access to the structure. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADMODELCONN | "X'0000081F" IXGINVNT, IXGCONN and IXGDELET requests. Explanation: System error. System logger encountered an internal problem while processing the LOGR couple data set. Action: Contact the IBM Support Center. Provide the return and reason code and the contents of the answer area (ANSAREA field). |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEDSPCREATEFAILED | "X'00000820" IXGCONN request. Explanation: Program error. The program issued an IXGCONN request to connect to a log stream that was defined as a model in the LOGR policy. You cannot connect to a model log stream. Action: Either change the definition of the specified structure so that it is not a model, or else request connection to a different log stream that is not a model. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADHLQ | "X'00000821" IXGINVNT request. Explanation: System error. A data space create failed during inventory report processing. Action: See ANSAA_DIAG1 for the DSPSERV return code and ANSAA_DIAG2 for the DSPSERV reason code. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODENOINVRECSpace | "X'00000822" IXGINVNT request. Explanation: Program error. The high level qualifier specified on the HLQ parameter was incorrect. Action: Specify a valid high level qualifier and re-issue the request. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEMAXSTREAMSTR | "X'00000823" IXGINVNT request. Explanation: Environment error. The LOGR couple data set cannot be updated because the maximum number of entries for the specified type has already been reached. Action: # Format a new LOGR couple data set using the IXCL1DSU utility. In the new LOGR couple data set either delete unused entries or increase the allowed number of entries on the LSR parameter (for log stream entries) or the LSTRR parameter (for coupling facility structure entries). # PSWITCH the current alternate LOGR couple data set to primary. # Add the new LOGR couple data set as alternate. # PSWITCH the new LOGR couple data set from alternate to primary. |

IXGCON Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|---------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODESTRDEFINED | "X'00000824" IXGINVNT request. Explanation: Program error. A program issued IXGINVNT to associate a structure with a log stream, but the maximum number of log streams allowed (as defined on the LOGSNUM parameter) has been reached for the specified structure. Action: Either specify a structure that has not reached its LOGSNUM limit, or specify a larger LOGSNUM value on the definition for the structure. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADLOGSNUM | "X'00000825" IXGINVNT request. Explanation: Program error. The structure specified on the IXGINVNT request is already defined in the LOGR inventory couple data set. Action: Either use the existing structure definition, change the name of the structure being defined or delete the existing structure and re-define it. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADLOGSNUM | "X'00000826" IXGINVNT request. Explanation: Program error. The LOGSNUM value specified for a structure definition was not within the valid range between 1 and 512. Action: Change the LOGSNUM value to be within the valid range. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODENOSTRRECORD | "X'00000827" IXGINVNT request. Explanation: Program error. The coupling facility structure specified in the definition for a log stream is not defined in the LOGR inventory couple data set. Action: Either define the coupling facility structure before referencing it in a log stream definition, or specify an existing structure definition. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODESTRRECORDINUSE | "X'00000828" IXGINVNT request. Explanation: Program error. The request to delete a structure definition from the LOGR inventory couple data set cannot be completed because several log stream definitions reference it. You cannot delete a structure definition until all the log streams associated with it have been deleted first. Action: Delete all the log streams associated with the structure you wish to delete, then re-issue the request. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADSTGSTORCLAS | "X'00000829" IXGINVNT request. Explanation: Program error. The name specified on the STG_STORCLAS parameter is incorrect. Action: Change the staging data set storage class specified to meet the STG_STORCLAS syntax requirements. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADLSSTORCLAS | "X'0000082A" IXGINVNT request. Explanation: Program error. The name specified on the LS_STORCLAS parameter is incorrect. Action: Change the log stream data set storage class specified to meet the LS_STORCLAS syntax requirements. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADSTREAMLIKE | "X'0000082B" IXGINVNT request. Explanation: Program error. The log stream name specified on the LIKE parameter was not valid. Action: Re-issue the request with a valid log stream name on the LIKE parameter. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADSTRUCTNAME | "X'0000082C" IXGINVNT request. Explanation: Program error. The coupling facility structure name specified on the STRUCTNAME parameter is not valid. Action: Re-issue the request with a valid structure name on the STRUCTNAME parameter. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEEXPIREDSTMTOKEN | "X'0000082D" IXGCONN, IXGBRWSE, IXGWRITE, IXGDELET, IXGIMPRT, IXGQUERY, IXGOFFLD, IXGUPDAT requests. Explanation: Environment error. The stream token is no longer valid because the connector has been disconnected. Action: Re-connect to the logstream before issuing any functional requests. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODENOLOGRCDSAVAIL | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|--------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADSTGDATACLAS | "X'0000082E" IXGCONN, IXGINVNT request. Explanation: Environment error. The request failed because no LOGR couple data set (CDS) is available. The operator was prompted via message IXG054A to either make a LOGR CDS available or to indicate that the current Logger request should be rejected. The operator specified that the current request should be rejected. Action: System logger services are unavailable until a LOGR couple data set (CDS) is made available. Refer to publication "OS/390 MVS Setting Up a Sysplex" in section "Format the LOGR Couple Data Set and Make it Available to the Sysplex". Once the system logger is available using the couple data set, take the necessary steps to cause the function that issued the logger service to reattempt the request. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADLSDATACLAS | "X'0000082F" IXGINVNT request. Explanation: Program error. The name specified on the STG_DATACLAS parameter is not valid. Action: Change the data class specified to meet the STG_DATACLAS syntax requirements. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADLSDATACLAS | "X'00000830" IXGINVNT request. Explanation: Program error. The name specified on the LS_DATACLAS parameter is not valid. Action: Change the data class specified to meet the LS_DATACLAS syntax requirements. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADSTREAMNAME | "X'00000831" IXGINVNT, IXGCONN requests. Explanation: Program error. The log stream name specified on the STREAMNAME parameter is not valid. Action: Re-issue the request with a valid log stream name on the STREAMNAME parameter. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADSTGMGMTCLAS | "X'00000832" IXGINVNT request. Explanation: Program error. The name specified on the STG_MGMTCLAS parameter is not valid. Action: Change the staging data set management class specified to meet the STG_MGMTCLAS syntax requirements. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADLSMGMTCLAS | "X'00000833" IXGINVNT request. Explanation: Program error. The name specified on the LS_MGMTCLAS parameter is not valid. Action: Change the log stream data set management class specified to meet the LS_MGMTCLAS syntax requirements. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEINVALIDLSSIZE | "X'00000834" IXGINVNT request. Explanation: Program error. A non-zero LS_SIZE is specified, but is not in the range valid for a VSAM linear data set. Action: Either change the LS_SIZE or omit it from the DEFINE request to accept the default value. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEINVALIDSTGSIZE | "X'00000835" IXGINVNT request. Explanation: Program error. A non-zero STG_SIZE is specified, but is not in the range valid for a VSAM linear data set. Action: Either change the STG_SIZE or omit it from the DEFINE request to accept the default value. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADGAP | |

IXGCON Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|----------------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADTIMESTAMP | "X'00000836" IXGDELETE & IXGBRWSE requests. Explanation: Environment error. The request failed because the requested log data was unreadable. This condition could be caused by either an I/O error while attempting to read a log data set or a log data set deleted without using the IXGDELETE interface. Action: For an IXGBRWSE request, choose one of the following: # Continue processing. # Stop processing the log stream all together. # Attempt to get the problem rectified if possible, then attempt to re-read the log data. For an IXGDELETE request, the block identifier of the first accessible block toward the youngest data in the log stream is returned in the ANSAA_GAPS_NEXT_BLKID field in the answer area mapped by the IXGANSAA macro. If appropriate, re-issue the IXGDELETE request using this block identifier. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEUNDEFMSCLAS | "X'00000837" IXGWRITE & IXGBRWSE requests. Explanation: Program error. The storage area specified by TIMESTAMP cannot be accessed. Action: Ensure that the storage area is accessible to the system logger service for the duration of the request. The storage must be addressable in the caller's primary address space and in the same key as the caller. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADDCDSLEVEL | "X'00000838" IXGINVNT request. Explanation: Program error. At least one of the names specified for DATACLAS, MGMTCLAS, or STORCLAS is not defined to SMS. Action: Specify names that are defined to the active SMS configuration. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODERMNAMENOTALLOWED | "X'00000839" IXGINVNT request. Explanation: Environment error. The active primary TYPE=LOGR couple data set is not formatted at the level required to process the request. Action: Either format a new TYPE=LOGR couple data set at the required level and bring it into the sysplex as the active primary TYPE=LOGR couple data set and then retry the request or remove the keywords that require a new level couple data set then retry the request. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADBTOKENSTOR | "X'0000083A" IXGCONN request. Explanation: RMNAME keyword specified on the IXGCONN request but the log stream definition in inventory indicates a RMNAME is not allowed for the log stream. Action: Remove the RMNAME keyword from the IXGCONN request or update the log stream definition to include the RMNAME keyword. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADMAXBUFSIZE | "X'0000083B" IXGBRWSE requests. Explanation: Program error. The storage area specified by BROWSETOKEN cannot be accessed. Action: Ensure that the storage area is accessible to the system logger for the duration of the request. The storage must be addressable in the caller's primary address space and in the same key as the caller. |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|-------------------------|--|
| Dec | Hex | | | | |
| | | | | | "X'0000083C" IXGINVNT request. Explanation: Program error. For a DEFINE or UPDATE request, the value specified for MAXBUFSIZE was incorrect. It must be a value between 1 and 65,532. For an UPDATE request, either: - the value specified is less than the MAXBUFSIZE value currently associated with a DASD-only log stream, or - the current DASD-only MAXBUFSIZE value is greater than the MAXBUFSIZE value associated with the STRUCTNAME specified on the update request, or - the current structure MAXBUFSIZE value is greater than the MAXBUFSIZE value associated with the STRUCTNAME specified on the update request. Action: For a DEFINE request, specify a valid value for MAXBUFSIZE and re-issue the request. For an UPDATE request, either specify a value within the valid range for MAXBUFSIZE that is greater than or equal to the current DASD-only MAXBUFSIZE value, or ensure that the structure specified for the STRUCTNAME keyword has a maximum buffer size that is greater than or equal to the current MAXBUFSIZE value associated with the log stream specified on the update request. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADECBSTOR | "X'0000083D" IXGWRITE, IXGBRWSE and IXGDELET requests. Explanation: Program error. The ECB storage area was not accessible to the system logger. Action: Ensure that the storage area is accessible to the system logger for the duration of the request. The storage must be addressable in the caller's home address space and in the same key as the caller. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODENOAVAILSYSREC | "X'0000083E" IXGINVNT requests. Explanation: System error. There were no available system records. Action: Contact the IBM support center. Provide the return and reason codes and the contents of the system logger trace. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODETESTARTERROR | "X'0000083F" IXGWRITE & IXGBRWSE & IXGIMPRT requests. Explanation: System error. An unexpected error was encountered while attempting to validate the buffer ALET. Action: See ANSAA_DIAG1 in the answer area mapped by the IXGANSAA macro for the return code from the TESTART system service. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADVERSION | "X'00000840" IXGWRITE, IXGBRWSE, IXGDELET, IXGCONN, IXGINVNT, IXGIMPRT, IXGQUERY, IXGUPDAT and IXGOFFLD, IXGUPDAT requests. Explanation: Environment error. The parameter list passed to the service routine had an invalid version indicator. Action: Ensure the level of MVS executing the request and the macro library used to compile the invoking routine are compatible |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADBUFFERALET | "X'00000841" IXGWRITE, IXGBRWSE & IXGIMPRT requests. Explanation: Program error. The buffer ALET specified is not zero and does not represent a valid entry on the caller's dispatchable unit access list (DUAL). See the ANSAA_DIAG1 field of the answer area, mapped by the IXGANSAA macro, for the return code from the TESTART system service. Action: Ensure that the correct ALET was specified. If not, provide the correct ALET. Otherwise, add the correct ALET to dispatchable unit access list (DUAL). |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADAVGBUFSIZE | "X'00000842" IXGINVNT request. Explanation: Program error. The value specified for AVGBUFSIZE was specified as incorrect. It must be a value between and 65,532 that is less than MAXBUFSIZE. Action: Re-issue the request with a valid AVGBUFSIZE value. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEXCDSREFORMAT | |

IXGCON Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|------------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODENOSTREAMLIKE | "X'00000843" IXGINVNT & IXGCONN requests. Explanation: Program error. A couple data set record is not valid. Action: Reformat the system logger couple data set. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEINVALIDFUNC | "X'00000844" IXGINVNT request. Explanation: Program error. The log stream name specified on the LIKE parameter is not defined in the LOGR couple data set. Action: Do one of the following: # Define the log stream you wish to reference in the LOGR inventory couple data set and re-issue the request. # Re-issue the request, specifying a different log stream that is already defined in the LOGR couple data set. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEEMPTYSTREAM | "X'00000845" IXGINVNT & IXGBRWSE requests. Explanation: System error. The parameter list for this service contains an unrecognizable function code. The parameter list storage may have been overlayed. Action: Fix the problem and then re-issue the request. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEEOFDELETE | "X'00000846" IXGBRWSE request. Explanation: Environment error. The log stream is empty. Action: Wait for data to be written to the log stream before browsing for data. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEENDREACHED | "X'00000847" IXGBRWSE requests. Explanation: Environment error. The request prematurely reached the beginning or the end of the log stream. The portion of the log stream from the requested log data to either the beginning or the end of the log stream (depending on the direction of the read) was deleted from the log stream via a prior IXGDELET request. Action: Determine whether this is an acceptable condition for your application. If so, ignore this condition. If not, provide serialization on the log stream or some other installation protocol to prevent deletes from being performed by other applications during a browse session. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADBUFFKEY | "X'00000848" IXGBRWSE request. Explanation: Environment error. The request failed and no log data is returned. For a READCURSOR request, the end of the log stream has been reached in the direction of the read. If the SEARCH parameter was specified, the time stamp is greater than any block in the log stream. Action: For the READCURSOR case, no more data exists in the log stream in the direction of the read. You may choose to stop reading, wait for more data to be written, or change the direction of the read. In the case where the SEARCH parameter was provided, ensure that the time stamp is less than or equal to the highest time stamp of a log block in the log stream. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEEOFGAP | "X'00000849" IXGWRITE, IXGBRWSE & IXGIMPRT requests. Explanation: Program error. The buffer key specified on the BUFFKEY parameter specifies an invalid key. Either the key is greater than 15 or the program is running in problem state and the specified key is not the same key as the PSW key at the time the the system logger service was issued. Action: For problem state programs, either do not specify the BUFFKEY parameter or else specify the same key as the PSW key at the time the system logger service was issued. For supervisor state programs, specify a valid storage key (0 <= key <= 15). |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|----------------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODELOSSOFDATAGAP | "X'0000084A" IXGBRWSE, IXGDELET requests. Explanation: Environment error. The request prematurely reached the beginning or the end of the log stream. The portion of the log stream from the requested log data to either the beginning or the end of the log stream (depending on the direction of the read) was unreadable. This condition may be caused by either an I/O error while trying to read a log data set, or a log data set deleted without using the IXGDELET interface. Action: The action necessary is completely up to the application depending on how critical your data is. You can do one of the following: # Accept this condition and continue reading. # Stop processing the log all together. # Attempt to get the problem rectified, if possible, and then attempt to re-read the log data. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODERMALREADYCONNECTED | "X'0000084B" IXGBRWSE & IXGDELET requests. Explanation: Environment error. The requested log data referenced a section of the log stream where log data is permanently missing. This condition occurs when a system or coupling facility is in recovery due to a failure, but not all of the log data in the log stream could be recovered. Action: If your application cannot tolerate any data loss, stop issuing system logger services to this log stream, disconnect from the log stream, and reconnect to a new, undamaged log stream. You can continue using the log stream if your applications can tolerate data loss. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODELOSSOFDATAEOF | "X'0000084C" IXGCONN requests. Explanation: The IXGCONN request specified the RMNAME keyword but the resource manager associated with the log stream is already connected to the log stream. Action: Correct probable logic error |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODESTRSPACETOOSMALL | "X'0000084D" IXGBRWSE requests. Explanation: Environment error. The request prematurely reached the beginning or the end of the log stream. The portion of the log stream from the requested log data to either the beginning or the end of the log stream (depending on direction of the read) was permanently lost. This condition occurs when a system or coupling facility is in recovery due to a failure, but not all of the log data in the log stream could be recovered. Action: If your application cannot tolerate any data loss, stop issuing system logger services to this log stream, disconnect from the log stream, and reconnect to a new, undamaged log stream. You can continue using the log stream if your applications can tolerate data loss. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEINVALIDRMNAMESPECIFIED | "X'0000084E" IXGCONN, IXGINVNT & IXGWRITE requests. Explanation: Environment error. Structure resources are not available to satisfy the request. All structure resources are allocated as system logger control resources. This condition occurs when the structure resources are consumed by the logstreams connections. Action: Increase the size of the structure in the CFRM policy or use SETXCF ALTER support to dynamically increase the size of the structure. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADVECTORLEN | "X'0000084F" IXGCONN requests. Explanation: The Resource Manager name specified on the IXGCONN request does not match the RMNAME specified for the log stream in inventory. Action: Change either the IXGCONN request or update the log stream's definition in inventory. |

IXGCON Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|------------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADCFLEVEL | "X'00000850" IXGCONN & IXGINVNT requests. Explanation: Environment error. The connect request was rejected. System logger was unable to locate a vector table in the hardware system area (HSA) that is large enough for the number of log streams associated with it. Action: Add storage to the vector storage table and/or retry the connect request later, when storage might be available. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADBLKSIZESTOR | "X'00000851" IXGCONN & IXGINVNT requests. Explanation: Environment error. The connect request was rejected. The operational level of the coupling facility is not sufficient to support logger functions. Action: Ensure that the coupling facility operational level for logger structures is at least CFLEVEL=1. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODENOCF | "X'00000852" IXGBRWSE request. Explanation: Program error. The storage area specified on the BLKSIZE parameter cannot be accessed. Action: Ensure that the storage area is accessible to system logger for the duration of the request. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADLOWOFFLOAD | "X'00000853" IXGCONN & IXGINVNT requests. Explanation: Environment error. The connect request was rejected. System logger could not allocate coupling facility structure space because no suitable coupling facility was available. Action: Check accompanying message IXG206I a list of the coupling facilities where space allocation was attempted and the reason why each attempt failed. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADHIGHOFFLOAD | "X'00000854" IXGINVNT request. Explanation: Program error. The value specified for LOWOFFLOAD is not valid. Action: Change the value to meet the LOWOFFLOAD syntax requirements. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADLOWHIGHOFFLOAD | "X'00000855" IXGINVNT request. Explanation: Program error. The value specified for HIGHOFFLOAD is invalid. Action: Change the value to meet the HIGHOFFLOAD syntax requirements. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADLOWHIGHOFFLOAD | "X'00000856" IXGINVNT request. Explanation: Program error. The specified or pending high offload value must be greater than the specified or pending low offload value. The low offload value must be lower than the high offload value. Action: Change either the LOWOFFLOAD parameter or the HIGHOFFLOAD parameter so that the low offload value is less than the high offload value. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEDUPLEXMODEDUPLEXNO | "X'00000857" IXGINVNT request. Explanation: Program error. DUPLEXMODE was specified, but the log stream was defined with STG_DUPLEX=NO. The DUPLEXMODE parameter is only valid with STG_DUPLEX=YES. Action: Either change the log stream definition to specify STG_DUPLEX=YES or else omit DUPLEXMODE from the request. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODESTGSIZEDUPLEXNO | "X'00000858" IXGINVNT request. Explanation: Program error. A non-zero STG_SIZE is specified but the log stream is defined with STG_DUPLEX=NO and DASDONLY=NO. Action: Either change the log stream definition to specify STG_DUPLEX=YES or DASDONLY=YES, or else omit the non-zero STG_SIZE from the request. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEDATACLASDUPLEXNO | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|----------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEMGMTCLASDUPLEXNO | "X'00000859" IXGINVNT request. Explanation: Program error. A non-blank STG_DATACLAS is specified but the log stream is defined with STG_DUPLEX=NO and DASDONLY=NO. Action: Either change the log stream definition to specify STG_DUPLEX=YES or DASDONLY=YES, or else omit the non-blank STG_DATACLAS from the request. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODESTORCLASDUPLEXNO | "X'0000085A" IXGINVNT request. Explanation: Program error. A non-blank STG_MGMTCLAS is specified but the log stream is defined with STG_DUPLEX=NO and DASDONLY=NO. Action: Either change the log stream definition to specify STG_DUPLEX=YES or DASDONLY=YES, or else omit the non-blank STG_MGMTCLAS from the request. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODESDIRECTORYFULL | "X'0000085B" IXGINVNT request. Explanation: Program error. A non-blank STG_STORCLAS is specified but the log stream was defined with STG_DUPLEX=NO and DASDONLY(NO). Action: Either change the log stream definition to specify STG_DUPLEX=YES or DASDONLY=YES, or else omit the non-blank STG_STORCLAS from the request. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEWOWERROR | "X'0000085C" IXGWRITE & IXGIMPRT requests. Explanation: Program error. The coupling facility structure space allocated for this log stream is full. Attempts to offload the coupling facility data to DASD failed because the log stream's data set directory is full. No further write requests can be processed until either enough log data is deleted from the log stream to free up space in the data set directory or additional log data set directory extent records are made available in LOGR active primary couple data set. Action: Either delete enough data from the log stream to free up space in the log stream's data set directory, disconnect from the log stream or wait for additional log data set directory extent records to become available either as the result of the installation formatting a new TYPE=LOGR couple data set with additional DSEXTENT records and bring it into the sysplex as the active primary LOGR couple data set, or as the result of a log data set directory extent record becoming available as a result of a log data delete request against any log stream in the sysplex which frees up an extent record or as the result of a log stream deletion request which frees up an extent record. Should this condition resolve either as a result of an extent record becoming available or as a result of log data being deleted from the log stream, an ENF signal 48 will be issued which will indicate that the log stream is available after the data has been offloaded to DASD and then re-issue the request. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEWOWERROR | "X'0000085D" IXGWRITE & IXGIMPRT requests. Explanation: Environment error. The coupling facility structure space allocated for this log stream is full or the staging data set space is full. Attempts to offload the interim storage data to DASD failed because of severe errors. No further write requests can be processed. Action: Either wait for the ENF signal that indicates that the logstream has been successfully offloaded, or Disconnect from this log stream and connect to another log stream. Check log for message IXG301I to determine the cause of the error. If error was related to your installation, correct the error. Otherwise, search problem reporting data bases for a fix for the problem. If no fix exists, contact the IBM Support Center. |

IXGCON Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|--|-----|------------|-----|-------------------------------|--|
| Dec | Hex | | | | |
| Comment | | | | | |
| @0AA | | | | | |
| End of Comment | | | | | |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODENOSTRUCTNAME | "X'0000085E" IXGINVNT request. Explanation: Program error. A structure name was not provided for this non-DASD only log stream via the STRUCTNAME parameter or defined for a log stream named on a LIKE parameter. A STRUCTNAME value is required to successfully define a log stream to the LOGR couple data set. Action: Provide a value for the STRUCTNAME parameter or define a structure for the log stream referenced on the LIKE parameter. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEPERCTOREQUESTOR | "X'0000085F" IXGBRWSE, IXGDELET, IXGWRITE request. Explanation: Environment error. Percolation to the service requestor's task occurred because of an abend during system logger processing. Retry was not allowed. Action: Issue the request again. If the problem persists, contact the IBM Support Center. |
| Comment | | | | | |
| The following range of reason codes (860 - 88F) indicate that the log stream is temporarily unavailable. The constant IxgRsnLogStreamTempUnavail is upper bound of reason codes. | | | | | |
| End of Comment | | | | | |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODECFLOGSTREAMSTORFULL | "X'00000860" IXGWRITE, IXGIMPRT requests. Explanation: Environment error. The coupling facility structure space allocated for this log stream is full. No further requests can be processed until the log data in the coupling facility structure is offloaded to DASD log data sets. Action: Listen to the ENF signal 48 which will indicate that the log stream is available after the data has been offloaded to DASD and then re-issue the request. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEREBUILDINPROGRESS | "X'00000861" IXGWRITE, IXGBRWSE, IXGDELET, IXGIMPRT, IXGQUERY, IXGOFFLD, IXGUPDAT requests. Explanation: Environment error. No requests can be processed for this log stream because a coupling facility structure re-build or a system-managed duplexing re-build is in progress for the structure associated with this log stream. Action: Listen for ENF signal 48 that will indicate one of the following: # The log stream is available because the re-build completed successfully. Re-issue the request. # The re-build failed and the log stream is not available. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEXESPURGE | "X'00000862" IXGWRITE, IXGBRWSE, IXGIMPRT, IXGDELET, IXGQUERY, IXGOFFLD, IXGUPDAT requests. Explanation: Environment error. An cross-system extended services (XES) request has been purged due to re-build processing. Action: Listen for ENF signal 48 that will indicate one of the following: # The log stream is available because the re-build completed successfully. Re-issue the request. # The re-build failed and the log stream is not available. . |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODESTRUCTUREFAILED | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|---------------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODENOCONECTIVITY | <p>"X'00000863" IXGCONN, IXGWRITE, IXGBRWSE, IXGDELET, IXGIMPRT, IXGQUERY, IXGOFFLD, IXGUPDAT requests.</p> <p>Explanation: Environment error. Either the coupling facility structure associated with the log stream has failed or the coupling facility itself has failed. Action: Listen for ENF signal 48 that will indicate one of the following: # The log stream is available because the re-build completed successfully. Re-issue the request. # The re-build failed and the log stream is not available. .</p> |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODESTAGINGDSFULL | <p>"X'00000864" IXGWRITE, IXGIMPRT requests. Explanation: Environment error. No connectivity exists to the coupling facility associated with the log stream. The system logger will either attempt to re-build the log stream in another coupling facility or the log stream will be disconnected. Action: Listen for ENF signal 48 that will indicate one of the following: # The log stream is available because the re-build completed successfully. Re-issue the request. # The re-build failed and the log stream is not available. # The log stream has been disconnected from this system.</p> |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODESTRUCTUREFULL | <p>"X'00000865" IXGWRITE & IXGIMPRT requests. Explanation: Environment error. The staging data set allocated for this log stream on this system is full. No further requests can be processed until enough log data is offloaded to DASD log data sets to relieve the staging data set full condition. For log streams using a coupling facility structure, enough data must be offloaded from the structure. For DASDONLY log streams, enough data must be offloaded from the Logger local buffers to relieve the staging data set full condition. Action: Listen to the ENF signal 48 which will indicate that the log stream is available after room becomes available in the staging data set. Then, re-issue the request.</p> |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODELOCALBUFFERFULL | <p>"X'00000866" IXGCONN request. Explanation: Environment error. The coupling facility structure space is full. Action: Listen to the ENF signal 48 which will indicate that space is available for the structure after data has been offloaded to DASD and then re-issue the request.</p> |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODELOCALBUFFERFULL | <p>"X'00000867" IXGWRITE, IXGIMPRT requests. Explanation: Environment error. The available local buffer space for the system logger address space is full. No further requests can be processed until the log data in the local buffer space is offloaded to DASD log data sets. Note: This reason code applies only to a WRITE to a DASD only log stream request. Action: Listen to the ENF signal 48 which will indicate that the log stream is available after the data has been offloaded to DASD and then re-issue the request.</p> |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODESTAGINGDSFORMAT | <p>"X'00000868" IXGWRITE request. Explanation: Environment error. The staging data set allocated for this log stream on this system has not finished being formatted for use by System Logger. No further ixgwrite requests can be processed until the formatting completes. Action: Listen to the ENF signal 48 which will indicate that the log stream is available after formatting process is finished. Then, re-issue the request.</p> |
| 0 | (0) | BITSTRING | 0 | IXGRSNLOGSTREAMTEMPUNAVIL | <p>"X'0000088F" Explanation: The upper bound limit of log stream temporarily unavailable.</p> |

IXGCON Map

| Offsets | | | | | |
|--|-----|------------|-----|---------------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| | | | | | Comment |
| The following range of reason codes (890 - 8AF) indicate that the system logger services are temporarily unavailable. | | | | | |
| | | | | | End of Comment |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEADDRSPACENOTAVAIL | "X'00000890" IXGINVNT, IXGCONN, IXGBRWSE IXGDELET, IXGWRITE, IXGIMPRT, IXGQUERY, IXGOFFLD, IXGUPDAT requests. Explanation: System error. The system logger address space failed and is not available. Action: Do not issue system logger requests. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEADDRSPACEINITIALIZING | "X'00000891" IXGINVNT, IXGCONN, IXGBRWSE IXGDELET, IXGWRITE, IXGIMPRT, IXGQUERY, IXGOFFLD, IXGUPDAT requests Explanation: System error. The system logger address space is not available because it is IPLing. Action: Listen for ENF signal 48, which will indicate when the system logger address space is available. Then do one of the following: # For an IXGINVNT or IXGCONN request, re-issue this request. # For an IXGBRWSE, IXGWRITE, or IXGDELET request, re-connect to the log stream, then re-issue this request. You can also listen for ENF signal 48, which will indicate if the system logger address space will not be available for the life of the IPL. In that case, do not issue system logger services. |
| | | | | | Comment |
| The following range of reason codes (8B0 - 8CF) indicate that the system logger resources are temporarily unavailable | | | | | |
| | | | | | End of Comment |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODESTRUCTURENOTAVAIL | "X'000008B0" IXGCONN requests. Explanation: Environment error. The connect request failed. The structure associated with the log stream is temporarily unavailable because either a coupling facility structure re-build is in progress, a system-managed duplexing re-build is in progress, a structure dump is in progress, or connections to the structure are being prevented. Action: Listen for ENF signal 48, which indicates that a coupling facility is available, and then retry the connect. |
| | | | | | Comment |
| The following range of reason codes (8D0 - 8D2) indicate that the user's environment is incorrect for the requested function | | | | | |
| | | | | | End of Comment |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEPROBLEMSTATE | "X'000008D0" IXGBRWSE, IXGWRITE & IXGDELET IXGCONN requests. Explanation: Environment error: For IXGCONN, COMPLETEEXIT was specified on the connect request while the PSW was in problem stat For IXGWRITE, IXGBRWSE and IXGDELET requests, the request wa issued in SRB mode, or SYNCEXIT was specified while the requestor was in problem state. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEPROGRAMKEY | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|------------------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODENOCOMPLETEEXIT | "X'000008D1" IXGBRWSE, IXGWRITE & IXGDELET IXGCONN requests. Explanation: Environment error: For IXGCONN, COMPLETEEXIT was specified on the connect request while the psw key was not a syste key (KEY 0-7) For IXGWRITE, IXGBRWSE and IXGDELET requests, The request wa issued in SRB mode or SYNCEXIT was specified while the requestor was not in a system key (Key 0-7) |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEFUNCSNOTSUPPORTED | "X'000008D2" IXGWRITE & IXGDELET requests. Explanation: Program error. MODE=SYNCEXIT was specified but the log stream connection request did not identify a complete exit. Action: Either change this request to use a different MODE option or change the IXGCONN request for this log stream to identify a completion exit via the COMPLETEEXIT keyword. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADRMNAME | "X'000008D3" IXGBRWSE, IXGCONN & IXGQUERY requests. Explanation: Installation Error. An IXGCONN request specified the RMNAME or ImportConnect keyword. However, the Logger Inventory CDS is downlevel. An IXGQUERY was issued and the Logger Inventory CDS is downlevel. The options specified on the IXGBRWSE request are not supported on this system/maintenance level of Logger. Action: For IXGCONN and IXGQUERY requests bring all system in the sysplex up to the OS390R3 level, format an OS390R3 Inventory CDS and make it the primary CDS. For IXGBRWSE request, either install the level of Logger that provides the support for the requested function, or stop specifying the options that are not supported at this level. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADLSDESC | "X'000008D4" IXGINVNT request. Explanation: Value given for the RMNAME keyword failed syntax validation. Action: Review the rules for naming a resource manager. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODECONNTYPENOTALLOWED | "X'000008D5" IXGINVNT request. Explanation: Value given for the DESCRIPTION keyword failed syntax validation. Action: Review the rules for naming a resource manager. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODECONNTYPENOTALLOWED | "X'000008D6" IXGCONN Request. Explanation: Either one of the following occurred: 1. IMPORTCONNECT=YES specified and there is at least one active write connect in the sysplex. 2. IMPORTCONNECT=NO specified and there is an import connect active in the sysplex |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEREQUESTNOTALLOWED | "X'000008D7" IXGWRITE and IXGIMPRT Requests. Explanation: Program error. A write request was attempted while an import connect was active or an import was attempted while an import connect was not active |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADRETPD | "X'000008D8" IXGINVNT Request. Explanation: Program error. The value specified for RETPD was incorrect. It must be a value >= 0 and <= 65,536. Action: Specify a valid value for RETPD and re-issue the request. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADIMPORTBLOCKID | "X'000008D9" IXGIMPRT Request. Explanation: Program error. The block id specified on the import request was either less than the next expected block or the difference between the block id specified and the next expected block id was less than 40. Action: Specify a valid value for Block id and re-issue the request. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADIMPORTTIMESTAMP | |

IXGCON Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|-----------------------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEIMPORTINPROGRESS | "X'000008DA" IXGIMPRT Request. Explanation: Program error. The GMT timestamp specified on the import request was not less than or equal to the GMT time stamp assigned to the last log block successfully imported. Action: Specify a valid value for GMT_TimeStamp and re-issue the request. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEUPDATETIMESTAMPTOOSMALL | "X'000008DC" IXGIMPRT Request. Explanation: Program error. IXGIMPRT request is already in progress. Only one import operation for a given log stream can be in progress in any instance in time Action: Insure that a new import request is not initiated until the previous import request completes |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEUPDATENOOPTIONS | "X'000008DD" IXGUPDAT Request. Explanation: Program error. The replacement time stamp is less than list authority in list controls associated with the data list header assigned to the log stream Action: Insure that the replacement time stamp is greater than or equal to the time stamp maintained in list controls for the log stream |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADSTRUCTUPDATE | "X'000008DE" IXGUPDAT Request. Explanation: Program error. The IXGUPDAT macro was invoked with no options specified. Action: Invoke the IXGUPDAT macro specifying an at least one of the options supported |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODESTGDUPLXDASDONLY | "X'000008DF" IXGINVNT Request. Explanation: Program error. A structure name was specified on an update request to upgrade a log stream which is already using a coupling facility list structure. Action: Do not specify a STRUCTNAME on an update request for a non-DASD only log stream. Note: This reason code is no longer set since logstreams can now be updated to use a different coupling facility list structure |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODESTGDUPLEXMODEDASDONLY | "X'000008E0" IXGINVNT request. Explanation: Program error. STG_DUPLEX parameter was specified on an update request, but the log stream was defined with DASDONLY=YES. The STG_DUPLEX parameter is only valid for a non-DASD only log stream. Action: Do not specify the STG_DUPLEX parameter on an update request for a DASD only log stream. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEDUPLEXMODEDASDONLY | "X'000008E1" IXGINVNT request. Explanation: Program error. DUPLEXMODE parameter was specified on an update request, but the log stream was defined with DASDONLY=YES. The DUPLEXMODE parameter is only valid for a non-DASD only log stream. Action: Do not specify the DUPLEXMODE parameter on an update request for a DASD only log stream. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEDASDONLYCONNECTED | "X'000008E2" IXGCONN request. Explanation: Environment error: An attempt to connect to a DASD only log stream was rejected on this system because the log stream is already connected on another system in the sysplex. Action: Determine if the connection to the log stream on the 2nd system is necessary. If so, then cause the applications on the 1st system to disconnect from the log stream and then connect on the 2nd system. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODELOGSTREAMNOTSUPPORTED | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|--------------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEMAXBUFSIZEDASDONLY | "X'000008E3" IXGCONN & IXGINVNT requests. Explanation: Environment error: An attempt to connect or effect the LOGR inventory for the log stream is rejected on this system because the system release level does not support this type of log stream (e.g. this system does not support DASD only log streams, or a logstream attribute such as EHLQ cannot be processed on this system release level). Action: When attempting to define, update or delete a DASD only log stream, you must do so on an HBB6603 or higher level system. When connecting to a DASD only log stream: determine if the connection to the log stream is necessary. If so, do one of the following: # Connect to the log stream on an HBB6603 or higher level system. # Update the log stream definition in the Logger inventory to use a Coupling Facility list structure (can only be done on an HBB6603 or higher system), then the pre-BBB6603 system can connect to the log stream. # Delete the log stream from the Logger inventory, re-define the log stream to use a list structure in the Logger inventory, then the pre-HBB6603 system can connect to the log stream. The log stream delete can be done on any system if the log stream had never been connected on any of the systems. If the log stream had been connected to at least once, then the delete will need to be done on an HBB6603 or higher level system. When attempting to connect or delete a log stream that has the EHLQ attribute, you must do so on at least a z/OS 1.3 system release level. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODELOGGERDUPLEXDASDONLY | "X'000008E4" IXGINVNT request. Explanation: Program error. A value was specified for MAXBUFSIZE, but the log stream was defined as DASDONLY=NO. Action: Remove the MAXBUFSIZE parameter from the request or change the log stream definition to specify MAXBUFSIZE with a log stream that is defined with DASDONLY=YES. |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEBADDEHLQ | "X'000008E5" IXGINVNT request. Explanation: Program error. The LoggerDuplex parameter was specified on a DEFINE or an UPDATE request, but the log stream was defined with DASDONLY=YES. The LoggerDuplex parameter is only valid for a coupling facility structure based log stream. Action: Do not specify the log stream LoggerDuplex parameter on a DEFINE or an UPDATE request for a DASD only log stream. This error code may also result when using the IXCMIAPU DATA TYPE(LOGR) utility when the LoggerDuplex option is specified for a DASD only log stream. (Refer to Logger error message IXG002E.) |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEEHLQTOO LONG | "X'000008E6" IXGINVNT Request. Explanation: Program error. The extended high level qualifier for the log stream data sets specified on the EHLQ parameter was incorrect. Could be from a syntax error or by specifying EHLQ and HLQ on the same request. Action: Specify a valid extended high level qualifier (EHLQ) or high level qualifier (HLQ) and re-issue the request. This error code may also result when using the IXCMIAPU DATA TYPE(LOGR) utility when the EHLQ option is specified for a log stream. (Refer to Logger error message IXG002E). |

IXGCON Cross Reference

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|----------------|--|
| Dec | Hex | | | | |
| | | | | | "X'000008E7'" IXGINVNT Request. Explanation: Program error. The combined length of the extended high level qualifier (EHLQ value) and the log stream name (with a period delimiter) exceeds 35 characters. The combined length of the EHLQ value, the log stream name, and the logger suffix (with period delimiters) cannot exceed 44 characters. Action: Specify a valid extended high level qualifier (EHLQ) or high level qualifier (HLQ) and re-issue the request. This error code may also result when using the IXCMIAPU DATA TYPE(LOGR) utility when the EHLQ option is specified for a log stream. (Refer to Logger error message IXG002E). |
| 0 | (0) | BITSTRING | 0 | IXGRSNCODEMASK | "X'0000FFFF'" Reason code mask |

IXGCON Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|---------------------------------|------------|-----------|------------------------------|------------|-----------|
| IXGRETCODECOMPERROR | 0 | C | IXGRSNCODEBADHLQ | 0 | 855 |
| IXGRETCODEERROR | 0 | 8 | IXGRSNCODEBADIMPORTBLOCKID | 0 | 822 |
| IXGRETCODEOK | 0 | 0 | IXGRSNCODEBADIMPORTTIMESTAMP | 0 | 8D9 |
| IXGRETCODEWARNING | 0 | 4 | IXGRSNCODEBADLOGSNUM | 0 | 8DA |
| IXGRSNCODEADDRSPACEINITIALIZING | 0 | 891 | IXGRSNCODEBADLOWHIGHOFFLOAD | 0 | 826 |
| IXGRSNCODEADDRSPACENOTAVAIL | 0 | 890 | IXGRSNCODEBADLOWOFFLOAD | 0 | 856 |
| IXGRSNCODEALLOCERROR | 0 | 805 | IXGRSNCODEBADLSDATACLAS | 0 | 854 |
| IXGRSNCODEBADANSAREA | 0 | 817 | IXGRSNCODEBADLSDESC | 0 | 830 |
| IXGRSNCODEBADANSLEN | 0 | 816 | IXGRSNCODEBADLSMGMTCLAS | 0 | 8D5 |
| IXGRSNCODEBADAVGBUFSIZE | 0 | 842 | IXGRSNCODEBADLSSTORCLAS | 0 | 833 |
| IXGRSNCODEBADBLKSIZESTOR | 0 | 852 | IXGRSNCODEBADMAXBUFSIZE | 0 | 82A |
| IXGRSNCODEBADBLOCKIDSTOR | 0 | 818 | IXGRSNCODEBADMODELCONN | 0 | 83C |
| IXGRSNCODEBADBRWTKEN | 0 | 807 | IXGRSNCODEBADPARMLIST | 0 | 820 |
| IXGRSNCODEBADBTOKENSTOR | 0 | 83B | IXGRSNCODEBADRETPD | 0 | 801 |
| IXGRSNCODEBADBUFFER | 0 | 803 | IXGRSNCODEBADRMNAME | 0 | 8D8 |
| IXGRSNCODEBADBUFFERALET | 0 | 841 | IXGRSNCODEBADSTGDATACLAS | 0 | 8D4 |
| IXGRSNCODEBADBUFFKEY | 0 | 849 | IXGRSNCODEBADSTGMGMTCLAS | 0 | 82F |
| IXGRSNCODEBADBUFSIZE | 0 | 80F | IXGRSNCODEBADSTGSTORCLAS | 0 | 832 |
| IXGRSNCODEBADCDLEVEL | 0 | 839 | IXGRSNCODEBADSTMTOKEN | 0 | 829 |
| IXGRSNCODEBADCFLEVEL | 0 | 851 | IXGRSNCODEBADSTREAMLIKE | 0 | 806 |
| IXGRSNCODEBADECBSTOR | 0 | 83D | IXGRSNCODEBADSTREAMNAME | 0 | 82B |
| IXGRSNCODEBADEHLQ | 0 | 8E6 | IXGRSNCODEBADSTRNAME | 0 | 831 |
| IXGRSNCODEBADGAP | 0 | 836 | IXGRSNCODEBADSTRUCTNAME | 0 | 811 |
| IXGRSNCODEBADHIGHOFFLOAD | | | | | |

| Name | Hex Offset | Hex Value |
|------------------------------------|------------|-----------|
| | 0 | 82C |
| IXGRSNCODEBADSTRUCTUPDATE | 0 | 8DF |
| IXGRSNCODEBADTIMESTAMP | 0 | 837 |
| IXGRSNCODEBADVECTORLEN | 0 | 850 |
| IXGRSNCODEBADVERSION | 0 | 840 |
| IXGRSNCODEBADWRITESIZE | 0 | 809 |
| IXGRSNCODECFLOGSTREAMSTORFULL | 0 | 860 |
| IXGRSNCODECONNECTREBUILD | 0 | 406 |
| IXGRSNCODECONNPossibleLossOfData | 0 | 407 |
| IXGRSNCODECONNTYPENOTALLOWED | 0 | 8D6 |
| IXGRSNCODEDASDONLYCONNECTED | 0 | 8E2 |
| IXGRSNCODEDATACLASDUPLEXNO | 0 | 859 |
| IXGRSNCODEDISCONNECTINPROGRESS | 0 | 404 |
| IXGRSNCODESDIRECTORYFULL | 0 | 85C |
| IXGRSNCODESDIRECTORYFULLWARNING | 0 | 408 |
| IXGRSNCODEDSPCREATEFAILED | 0 | 821 |
| IXGRSNCODEDUPLEXFAILUREWARNING | 0 | 40A |
| IXGRSNCODEDUPLEXMODEDASDONLY | 0 | 8E1 |
| IXGRSNCODEDUPLEXMODEDUPLEXNO | 0 | 857 |
| IXGRSNCODEEHLQTOOLONG | 0 | 8E7 |
| IXGRSNCODEEMPTYSTREAM | 0 | 846 |
| IXGRSNCODEENDREACHED | 0 | 848 |
| IXGRSNCODEEOFDELETE | 0 | 847 |
| IXGRSNCODEEOFGAP | 0 | 84A |
| IXGRSNCODEEXPIREDSTMTOKEN | 0 | 82D |
| IXGRSNCODEFUNCNOTSUPPORTED | 0 | 8D3 |
| IXGRSNCODEIMPORTINPROGRESS | 0 | 8DC |
| IXGRSNCODEINVALIDFUNC | 0 | 845 |
| IXGRSNCODEINVALIDLSSIZE | 0 | 834 |
| IXGRSNCODEINVALIDDRMNAMESSPECIFIED | 0 | 84F |
| IXGRSNCODEINVALIDSTGSIZE | 0 | 835 |
| IXGRSNCODEIOERROR | 0 | 808 |
| IXGRSNCODELOCALBUFFERFULL | 0 | 867 |

| Name | Hex Offset | Hex Value |
|-----------------------------------|------------|-----------|
| IXGRSNCODELOGGERDUPLEXDASDONLY | 0 | 8E5 |
| IXGRSNCODELOGSTREAMDELETED | 0 | 813 |
| IXGRSNCODELOGSTREAMNOTSUPPORTED | 0 | 8E3 |
| IXGRSNCODELOGSTREAMRECOVERYFAILED | 0 | 812 |
| IXGRSNCODELOSSOFDATAEOF | 0 | 84D |
| IXGRSNCODELOSSOFDATAGAP | 0 | 84B |
| IXGRSNCODEMASK | 0 | FFFF |
| IXGRSNCODEMAXBUFSIZEDASDONLY | 0 | 8E4 |
| IXGRSNCODEMAXSTREAMCONN | 0 | 81A |
| IXGRSNCODEMAXSTREAMSTR | 0 | 824 |
| IXGRSNCODEMGMTCLASDUPLEXNO | 0 | 85A |
| IXGRSNCODEMULTIBLOCKERRORWARNING | 0 | 417 |
| IXGRSNCODENOAVAILSYSREC | 0 | 83E |
| IXGRSNCODENOBLOCK | 0 | 804 |
| IXGRSNCODENOCF | 0 | 853 |
| IXGRSNCODENOCOMLETEEXIT | 0 | 8D2 |
| IXGRSNCODENOCONNECTIVITY | 0 | 864 |
| IXGRSNCODENOINVRECSpace | 0 | 823 |
| IXGRSNCODENOLOGRCDSAVAIL | 0 | 82E |
| IXGRSNCODENOSAFAUTH | 0 | 80D |
| IXGRSNCODENOSTREAM | 0 | 80B |
| IXGRSNCODENOSTREAMLIKE | 0 | 844 |
| IXGRSNCODENOSTRRECORD | 0 | 827 |
| IXGRSNCODENOSTRUCTNAME | 0 | 85E |
| IXGRSNCODENOTAUTHFUNC | 0 | 81C |
| IXGRSNCODENOTAVAILFORIPL | 0 | 814 |
| IXGRSNCODENOTENABLED | 0 | 815 |
| IXGRSNCODEOK | 0 | 0 |
| IXGRSNCODEPERCTOREQUESTOR | 0 | 85F |
| IXGRSNCODEPRIMARYNOTHOME | 0 | 81B |
| IXGRSNCODEPROBLEMSTATE | 0 | 8D0 |
| IXGRSNCODEPROCESSEDASYNCH | 0 | 401 |
| IXGRSNCODEPROGRAMKEY | 0 | 8D1 |

IXGCON Cross Reference

| Name | Hex Offset | Hex Value |
|------------------------------|---------------|--------------|
| IXGRSNCODEREBUILDINPROGRESS | 0 | 861 |
| IXGRSNCODEREQUESTLOCKED | 0 | 80A |
| IXGRSNCODEREQUESTNOTALLOWED | 0 | 8D7 |
| IXGRSNCODERMABENDED | 0 | 411 |
| IXGRSNCODERMALREADYCONNECTED | 0 | 84C |
| IXGRSNCODERMBADGAP | 0 | 40E |
| IXGRSNCODERMBADRETCODE | 0 | 415 |
| IXGRSNCODERMDISABLED | 0 | 412 |
| IXGRSNCODERMEOFGAP | 0 | 40F |
| IXGRSNCODERMINVALIDBLOCKID | 0 | 413 |
| IXGRSNCODERMLOSSOFDATAGAP | 0 | 410 |
| IXGRSNCODERMNAMEBADSTATE | 0 | 81D |
| IXGRSNCODERMNAMENOTALLOWED | 0 | 83A |
| IXGRSNCODERMNOBLOCK | 0 | 40D |
| IXGRSNCODERMNOTCONNECTED | 0 | 40B |
| IXGRSNCODERMVERRIDEOK | 0 | 40C |
| IXGRSNCODERMSTOPPEDDELETE | 0 | 414 |
| IXGRSNCODESRBMODE | 0 | 819 |
| IXGRSNCODESTAGINGALLOCERROR | 0 | 80C |
| IXGRSNCODESTAGINGGDSFORMAT | 0 | 868 |
| IXGRSNCODESTAGINGGDSFULL | 0 | 865 |
| IXGRSNCODESTGDUPLEXDASDONLY | 0 | 8E0 |
| IXGRSNCODESTGSDUPLEXNO | 0 | 858 |
| IXGRSNCODESTORCLASDUPLEXNO | 0 | 85B |
| IXGRSNCODESTRDEFINED | 0 | 825 |
| IXGRSNCODESTREAMDEFINED | 0 | 80E |
| IXGRSNCODESTREAMINUSE | 0 | 810 |
| IXGRSNCODESTRRECORDINUSE | 0 | 828 |
| IXGRSNCODESTRSPACETOOSMALL | 0 | 84E |
| IXGRSNCODESTRUCTUREFAILED | 0 | 863 |
| IXGRSNCODESTRUCTUREFULL | 0 | 866 |
| IXGRSNCODESTRUCTURENOTAVAIL | 0 | 8B0 |
| IXGRSNCODETESTARTERROR | | |

| Name | Hex Offset | Hex Value |
|-----------------------------------|---------------|--------------|
| | 0 | 83F |
| IXGRSNCODEUNDEFMSCLAS | 0 | 838 |
| IXGRSNCODEUPDATENOOPTIONS | 0 | 8DE |
| IXGRSNCODEUPDATETIMESTAMPTOOSMALL | 0 | 8DD |
| IXGRSNCODEWARNINGDEL | 0 | 402 |
| IXGRSNCODEWARNINGGAP | 0 | 403 |
| IXGRSNCODEWARNINGLOSSOFDATA | 0 | 405 |
| IXGRSNCODEWARNINGMULTIBLOCK | 0 | 416 |
| IXGRSNCODEWOWERROR | 0 | 85D |
| IXGRSNCODEWOWWARNING | 0 | 409 |
| IXGRSNCODEXCDSERROR | 0 | 81F |
| IXGRSNCODEXCDSREFORMAT | 0 | 843 |
| IXGRSNCODEXESERROR | 0 | 802 |
| IXGRSNCODEXESPURGE | 0 | 862 |
| IXGRSNCODEXESSTRNOTAUTH | 0 | 81E |
| IXGRSNLOGSTREAMTEMPUNAVIL | 0 | 88F |

IXGENF Programming Interface information

Programming Interface information

IXGENF

End of Programming Interface information

IXGENF Heading Information

Common Name: Event Notification Facility Signal Parameter List
Macro ID: IXGENF
DSECT Name: IXGENF
Owning Component: System Logger (SCLOG)
Eye-Catcher ID: ENF
 Offset: 0
 Length: 4 bytes
Storage Attributes: Key: 0
Size: IXGENF -- total of two sections:
 IxgenfCommon -- X'003C' (60 dec) bytes
 IxgenfUnion1 -- max of following:
 this IxgenfResMgrDisabled -- X'0046' (70 dec) bytes
 or IxgenfInventoryDefUpdate -- X'00E0' (224 dec) bytes
 or IxgenfInventoryDelete -- X'0032' (50 dec) bytes
 or IxgenfConnDiscInfo -- X'0074' (116 dec) bytes
 or IxgenfWrOffLoadInfo -- X'002A' (42 dec) bytes
 or IxgenfLogStreamNames -- X'001A' (26 dec) bytes
 times value in field
 IxgenfLogStreamCount
Created by: System Logger modules issuing an ?ENFREQ
 ACTION(SIGNAL) macro to send the ENF 48 signal
 to the registered listeners of ENF 48.
Pointed to by: On entry to the ENF listen exit, register 1 points
 to a word which contains the address of the
 IXGENF data area
Serialization: Serialized by the ENF component
Function: Mapping of parameter list passed to ENF listening
 routine to communicate MVS System Logger
 event information.

IXGENF Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|----------------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | IXGENF | LOGR Event Notification Parameter List |
| 0 | (0) | CHARACTER | 60 | IXGENFCOMMON | |
| | | | | (0) | |
| 0 | (0) | CHARACTER | 4 | IXGENFACRONYM | Eyecatcher C'ENF ' |
| 4 | (4) | CHARACTER | 5 | IXGENFCOMPONENT | Component Acronym |
| 9 | (9) | CHARACTER | 3 | | Unused |
| 12 | (C) | BITSTRING | 4 | IXGENFEVENTS | Event Flags |
| | | | | (0) | |
| 12 | (C) | BITSTRING | 1 | IXGENFEVENTSBYTE0 | |
| | | | | (0) | |
| | | 1... | | IXGENFSYSTEMLOGGERAVAIL | "X'80" MVS System Logger Services available. |
| | | .1.. | | IXGENFSYSTEMLOGGERNOTAVAILFORIPL | "X'40" MVS System Logger Services are not available for the duration of this IPL. A Re-IPL of the system is necessary to activate MVS System Logger Services. |
| | | ..1. | | IXGENFLOGSTREAMSAVAILABLE | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|--------------------------------|--|
| Dec | Hex | | | | |
| 13 | (D) | BITSTRING | 1 | IXGENFEVENTSBYTE1 (0) | "X'20" Logstream resources mapped to the structure named in IxgenfStrname are available for use. See IxgenfEventReasons for the specific reason logstream resources for the affected logstreams are available. |
| | | | | | IXGENFLOGSTREAMSNOTAVAILABLE |
| | | | | | "X'10" Logstream resources mapped to the structure named in IxgenfStrname are not available for use. See IxgenfEventReasons for the specific reason logstream resources for the affected logstreams are not available. |
| | | | | | IXGENFLOGSTREAMRESOURCECHANGE |
| | | | | | "X'08" A change in the state of the resources allocated to the logstreams listed has occurred. |
| | | | | | IXGENFSYSTEMLOGGERRESOURCECHG |
| | | | | | "X'04" A change in the state of resources that the System Logger has interest in has occurred (i.e. coupling facility resource change) |
| | | | | | IXGENFLOGSTREAMCONNDISC |
| | | | | | "X'02" A connection to or a disconnection from a log has been successful in the sysplex |
| | | | | | IXGENFLOGSTREAMDEFUPDATE |
| 14 | (E) | BITSTRING | 1 | IXGENFEVENTSBYTE2 (0) | "X'80" Either a log stream has been defined or its definition has been updated |
| | | | | | IXGENFLOGSTREAMDELETE |
| | | | | | "X'40" Log stream definition deleted from Logger inventory |
| | | | | | IXGENFLOGSTREAMOFFLOADCOMPLETE |
| | | | | | "X'20" A writer offload event for the log stream has completed |
| 15 | (F) | BITSTRING | 1 | IXGENFEVENTSBYTE3 (0) | IXGENFRMDISABLED |
| | | | | | "X'10" The resource manager associated with the log stream has been disabled because it abended and did not recover |
| | | | | | IXGENFEVENTREASONS |
| | | | | | (0) |
| | | | | | Specific reasons that the events are being reported for. |
| 16 | (10) | BITSTRING | 1 | IXGENFEVENTREASONSBYTE0 (0) | IXGENFSTRREBUILDSTART |
| | | | | | "X'80" Structure Rebuild processing for a log stream has begun. Programs connected to an affected log stream are expected to cease invoking MVS System Logger functions. If any functions are invoked against an affected log stream, they are rejected. This reason is valid for event IxgenfLogstreamsNotAvailable |
| | | | | | IXGENFSTRREBUILDCOMPLETE |
| | | | | | "X'40" Structure Rebuild processing for a log stream has completed. Programs may resume invoking MVS System Logger functions This reason is valid for event IxgenfLogstreamsAvailable. |
| | | | | | IXGENFSTRREBUILDFAILED |
| | | | | | "X'20" Structure Rebuild processing has failed. Connections to the structure named in IxgenfStrName from this system are in a failed state. Requests for the affected log stream(s) are rejected. This reason is valid for event IxgenfLogstreamsNotAvailable |
| | | | | | IXGENFSTAGINGDSSTORAGEAVAILABLE |
| | | | | | "X'10" Reclamation of staging data set space has completed. Staging data set space is now available for use by the subject logstream. This reason is valid for event IxgenfLogstreamsAvailable. |
| | | | | | IXGENFLOGSTREAMSTORAGEAVAILABLE |
| | | | | | |

IXGENF Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------------------|-----|--|---|
| Dec | Hex | | | | |
| | |1.. | | IXGENFLOSSOFDATA | "X'08" Migration of logstream data to DASD to reach the low threshold value of the current logstream storage consumption limit has completed. Coupling facility storage is now available for use by the subject logstream. This reason is valid for event IxgenfLogstreamsAvailable. |
| | |1. | | IXGENFCFRESOURCECHANGE | "X'04" A loss of data condition may exist for the affected logstream(s). This reason is valid for event IxgenfLogstreamResourceChange. |
| | |1 | | IXGENFXESRECOMMENDATION | "X'02" A change in the state of coupling facility resources has occurred and reported by ENF 35. When the resource change is related to a specific coupling facility structure, IxgenfStrName will contain the name of the structure that was affected by the resource change. This reason is valid for event IxgenfSystemLoggerResourceChg. |
| 17 | (11) | BITSTRING 1... | 1 | IXGENFEVENTREASONSBYTE1 (0) IXGENFCOMPONENTERROR | "X'01" A XES Recommend Action event was received by the MVS System Logger Structure Event Exit instructing System Logger to discontinue use (disconnect from) of the structure named in IxgenfStrName. The XES recommended action is based on installation specified SFM and CFRM policy values. Connections to the affected logstream(s) have been terminated by System Logger. This reason is valid for event IxgenfLogstreamsNotAvailable. |
| | | .1.. | | IXGENFSTRRESOURCECHANGE | "X'80" A system logger component error has occurred. The System Logger had to discontinue use (disconnect from) of the structure named in IxgenfStrName. Connections to the affected logstream(s) have been terminated by System Logger. This reason is valid for event IxgenfLogstreamsNotAvailable. |
| | | ..1. | | IXGENFREQLOGRESNOTAVAIL | "X'40" Resources in the structure named in IxgenfStrName have become available. Requests that were rejected due to a structure resource shortage or structure full condition should be attempted again. |
| 18 | (12) | BITSTRING | 1 | IXGENFEVENTREASONSBYTE2 | Event Specific Information that provides additional information about the reported event and the reason that the event is reported. |
| 19 | (13) | BITSTRING | 1 | IXGENFEVENTREASONSBYTE3 | |
| 20 | (14) | BITSTRING | 4 | IXGENFEVENTSPECIFICINFO (0) | |
| | | 1... | | IXGENFSTRREBUILDFAILLOSSCONN | "X'20" Logger required resources are not available (e.g. staging dataset could not be allocated) |
| 20 | (14) | BITSTRING | 1 | IXGENFEVENTSPECIFICINFOBYTE0 (0) | Event Specific Information that provides additional information about the reported event and the reason that the event is reported. |
| | | .1.. | | IXGENFSTRREBUILDFAILSTRFAIL | |
| | | ..1. | | IXGENFSTRREBUILDDCFIDUPLEX | |
| | | | | | "X'80" This bit is only valid when IxgenfStrRebuildFailed is ON. Structure Rebuild processing has failed. A loss of connectivity to the structure named in IxgenfStrname has left this system with no coupling facility resources allocated to the affected log stream(s). |
| | | | | | "X'40" This bit is only valid when IxgenfStrRebuildFailed is ON. Structure Rebuild processing has failed. A structure failure to the structure named in IxgenfStrname has left this system with no coupling facility resources allocated to the affected log stream(s). |
| | | | | | "X'20" On = CF Auto-duplex rebuild is in progress |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|---------------------------------|---|
| Dec | Hex | | | | |
| | | ...1 | | IXGENFLOSSOFCONNECTIVITY | "X'10" This bit is only valid when IxgenfXESrecommendation is ON. The XES Recommend Action event was initiated due to a loss of connectivity between the coupling facility structure named in IxgenfStrName and the system that the ENF Listener exit that receives this parameter list is executing on. |
| | | 1... | | IXGENFLOGSTREAMDISCONNECTED | "X'08" This bit is only valid when IxgenfXESrecommendation is ON or IxgenfComponentError is ON. Connections to the affected logstream(s) have been terminated by System Logger. The streamtoken that uniquely defined the connection has been invalidated. All connectors should clean up information related to the invalidated streamtoken. |
| | |1.. | | IXGENFSTGALLOCERR | "X'04" Staging Data set could not be allocated |
| 21 | (15) | BITSTRING | 1 | IXGENFEVENTSPECIFICINFOBYTE1 | |
| 22 | (16) | BITSTRING | 1 | IXGENFEVENTSPECIFICINFOBYTE2 | |
| 23 | (17) | BITSTRING | 1 | IXGENFEVENTSPECIFICINFOBYTE3 | |
| 24 | (18) | CHARACTER | 16 | IXGENFSTRNAME | Structure name that is the subject of the event being signalled (not provided if the event is not structure related). |
| 40 | (28) | SIGNED | 4 | IXGENFLOGSTREAMCOUNT | Number of log streams that are connected to the structure and affected by the reported event |
| 44 | (2C) | CHARACTER | 16 | | Unused - Available |
| 60 | (3C) | CHARACTER | 1 | IXGENFUNION1 | |
| 60 | (3C) | CHARACTER | 70 | IXGENFRESMGRDISABLED | (0) Resource Manager exit has been disabled |
| 60 | (3C) | BITSTRING | 8 | IXGENFRESMGRGMTTIMESTAMP | Time stamp |
| 68 | (44) | CHARACTER | 26 | IXGENFRESMGRLOGSTREAMNAME | log stream name |
| 94 | (5E) | CHARACTER | 8 | IXGENFRESMGRNAME | Resource Manager associated with this log stream. |
| 102 | (66) | CHARACTER | 8 | IXGENFRESMGRDATA | Resource Manager Data. |
| 110 | (6E) | CHARACTER | 16 | IXGENFRESMGRLSDESCRIPTION | Description associated with the log stream |
| 126 | (7E) | CHARACTER | 4 | IXGENFRESMGRABENDCODE | Copy of SDWAABCC if an sdwa was available when the resource manager was disabled else binary zeroes |
| 60 | (3C) | CHARACTER | 224 | IXGENFINVENTORYDEFUPDATE | (0) Log stream define or update section |
| 60 | (3C) | CHARACTER | 148 | IXGENFINVENTORYDEFUPDATE1 | (0) Original define or update section |
| 60 | (3C) | BITSTRING | 8 | IXGENFINVENTORYGMTTIMESTAMP | Time stamp |
| 68 | (44) | CHARACTER | 8 | IXGENFINVENTORYSYSNAME | System name on which the define or update occurred |
| 76 | (4C) | CHARACTER | 26 | IXGENFINVENTORYLOGSTREAMNAME | Log stream name |
| 102 | (66) | BITSTRING | 8 | IXGENFINVENTORYLOGSTREAMDEFTIME | Set to binary zeroes for log streams defined or changed prior to OS390R3. For log streams defined when OS390R3 is installed, this field contains the define time. For log streams defined before OS390R3 and updated after OS390R3 is installed, this field contains the time of first update. |
| 110 | (6E) | CHARACTER | 8 | IXGENFINVENTORYRESMGRNAME | Resource Manager associated with this log stream. If binary zeroes, no resource mgr is associated with this log stream |

IXGENF Map

| Offsets | | | | | |
|---------|------|------------|-----|-------------------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 118 | (76) | CHARACTER | 16 | IXGENFINVENTORYSTRUCTNAME | CF structure name to which the log stream maps |
| 134 | (86) | BITSTRING | 2 | IXGENFINVENTORYFLAGS (0) | Flags |
| 134 | (86) | BITSTRING | 1 | IXGENFINVENTORYFLAGS0 (0) | Flags byte 0 |
| | | 1... | | IXGENFINVENTORYDEFINEREQ | "X'80" If set, request is to define a log stream |
| | | .1.. | | IXGENFINVENTORYUPDATEREQ | "X'40" If set, request is to update the log stream definition |
| | | ..1. | | IXGENFINVENTORYSTGDUPLEXYES | "X'20" If set, STG_DUPLEX=YES in effect |
| | | ...1 | | IXGENFINVENTORYSTGMODECOND | "X'10" If set, Duplex_Mode=Cond in effect |
| | | 1... | | IXGENFINVENTORYMODELYES | "X'08" If set, this is a log stream model definition |
| | |1.. | | IXGENFINVENTORYDASDONLYYES | "X'04" If set, this is a DASD only log stream definition |
| | |1. | | IXGENFINVENTORYLOGGERDUPLEXCOND | "X'02" If set, LOGGERDUPLEX=COND is in effect |
| | |1 | | IXGENFINVENTORYEXT1 | "X'01" If set, IxgenInventoryExt1Area section is provided in the ENF area |
| 135 | (87) | BITSTRING | 1 | IXGENFINVENTORYFLAGS1 (0) | Flags byte 1 |
| | | 1... | | IXGENFINVENTORYAUODELETE | "X'80" If set, AutoDelete(Yes) |
| | | .1.. | | IXGENFINVENTORYOFFRECALL | "X'40" If set, OffloadRecall(Yes) |
| 136 | (88) | CHARACTER | 8 | IXGENFINVENTORYSTGDATACLAS | Data class for staging data sets |
| 144 | (90) | CHARACTER | 8 | IXGENFINVENTORYSTGMGMTCLAS | Mgmt class for staging data sets |
| 152 | (98) | CHARACTER | 8 | IXGENFINVENTORYSTGSTORCLAS | Storage class for staging data sets |
| 160 | (A0) | CHARACTER | 8 | IXGENFINVENTORYLSDATACLAS | Data class for log stream data sets |
| 168 | (A8) | CHARACTER | 8 | IXGENFINVENTORYLSMGMTCLAS | Mgmt class for log stream data sets |
| 176 | (B0) | CHARACTER | 8 | IXGENFINVENTORYLSSTORCLAS | Storage class for log stream data sets |
| 184 | (B8) | SIGNED | 4 | IXGENFINVENTORYLOWOFFLOAD | Low offload threshold |
| 188 | (BC) | SIGNED | 4 | IXGENFINVENTORYHIGHOFFLOAD | High offload threshold |
| 192 | (C0) | CHARACTER | 16 | IXGENFINVENTORYLSDESCRIPTION | Logstream description |
| 208 | (D0) | CHARACTER | 76 | IXGENFINVENTORYEXT1AREA (0) | This area included in the ENF parameter area when IxgenInventoryExt1 is on |
| 208 | (D0) | BITSTRING | 8 | IXGENFINVENTORYPENDUPDFLAGS (0) | These flags indicate that the associated field is in a "Pending Update" state and not yet committed. |
| 208 | (D0) | BITSTRING | 1 | IXGENFINVENTORYPENDUPDFLAGS0 (0) | Flags byte 0 |
| | | 1... | | IXGENFINVENTORYRETPDPENDUPD | "X'80" |
| | | .1.. | | IXGENFINVENTORYAUODELETEPENDUPD | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|--------------------------------------|---|
| Dec | Hex | | | | |
| | | ...1. | | IXGENFINVENTORYOFFLOADRECALLPENDUPD | "X'40" |
| | | ...1 | | IXGENFINVENTORYLSSIZEPENDUPD | "X'20" |
| | | 1... | | IXGENFINVENTORYLSDATACLASPENDUPD | "X'10" |
| | |1.. | | IXGENFINVENTORYLSMGMTCLASPENDUPD | "X'08" |
| | |1. | | IXGENFINVENTORYLSSTORCLASPENDUPD | "X'04" |
| | |1 | | IXGENFINVENTORYLOWOFFLOADPENDUPD | "X'02" |
| 209 | (D1) | BITSTRING | 1 | IXGENFINVENTORYPENDUPDFLAGS1 (0) | "X'01" |
| | | 1... | | IXGENFINVENTORYHIGHOFFLOADPENDUPD | Flags byte 1 "X'80" |
| | | .1.. | | IXGENFINVENTORYSTGSIZEPENDUPD | "X'40" |
| | | .1. | | IXGENFINVENTORYSTGDATACLASPENDUPD | "X'20" |
| | | ...1 | | IXGENFINVENTORYSTGMGMTCLASPENDUPD | "X'10" |
| | | 1... | | IXGENFINVENTORYSTGSTORCLASPENDUPD | "X'08" |
| | |1.. | | IXGENFINVENTORYMAXBUFSIZEPENDUPD | "X'04" |
| | |1. | | IXGENFINVENTORYLOGGERDUPLEXPENDUPD | "X'02" |
| | |1 | | IXGENFINVENTORYSTGDUPLEXYESPENDUPD | "X'01" |
| 210 | (D2) | BITSTRING | 1 | IXGENFINVENTORYPENDUPDFLAGS2 (0) | Flags byte 2 |
| | | 1... | | IXGENFINVENTORYDUPLEXMODECONDPENDUPD | "X'80" |
| 216 | (D8) | SIGNED | 4 | IXGENFINVENTORYLSSIZE | Ls_Size |
| 220 | (DC) | SIGNED | 4 | IXGENFINVENTORYSTGSIZE | Stg_Size |
| 224 | (E0) | SIGNED | 4 | IXGENFINVENTORYMAXBUFSIZE | DasdOnly MaxBufSize |
| 228 | (E4) | SIGNED | 4 | IXGENFINVENTORYFW1 (0) | Fullword boundardy |
| 228 | (E4) | BITSTRING | 1 | | Reserved |
| 229 | (E5) | BITSTRING | 3 | IXGENFINVENTORYRETPD | Retpd |
| 232 | (E8) | CHARACTER | 33 | IXGENFINVENTORYEHLQ | Ehlq/Hlq |
| 265 | (109) | CHARACTER | 19 | IXGENFINVENTORYRSVD | Reserved for future use |
| 60 | (3C) | CHARACTER | 50 | IXGENFINVENTORYDELETE (0) | Log stream delete from inventory |
| 60 | (3C) | BITSTRING | 8 | IXGENFINVENTORYDELGMTTIMESTAMP | Time stamp |
| 68 | (44) | CHARACTER | 8 | IXGENFINVENTORYDELSYSNAME | System name on which the log stream delete occurred |
| 76 | (4C) | CHARACTER | 26 | IXGENFINVENTORYDELLOGSTREAMNAME | Log stream name |
| 102 | (66) | CHARACTER | 8 | IXGENFINVENTORYDELRESMGRNAME | Resource Manager Name |

IXGENF Map

| Offsets | | | | | |
|---------|------|------------|-----|--------------------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 60 | (3C) | CHARACTER | 116 | IXGENFCONNDISCINFO (0) | Successful connect to or disconnect from a log stream |
| 60 | (3C) | CHARACTER | 8 | IXGENFCONNDISCSYSNAME | System name on which the connect or disconnect occurred |
| 68 | (44) | BITSTRING | 8 | IXGENFCONNDISCGMTTIMESTAMP | Time stamp Set for both connect and disconnect events |
| 76 | (4C) | CHARACTER | 26 | IXGENFCONNDISCLOGSTREAMNAME | log stream name. Set for both connect and disconnect events |
| 102 | (66) | BITSTRING | 8 | IXGENFCONNDISCLOGSTREAMDEFTIME | Set to binary zeroes for log streams defined or changed prior to OS390R3. For log streams defined when OS390R3 is installed, this field contains the define time. For log streams defined before OS390R3 and updated after OS390R3 is installed, this field contains the time of first update. |
| 110 | (6E) | BITSTRING | 8 | IXGENFCONNDISCLOGSTREAMSTRVER (0) | Version number of the CF structure associated with this log stream. Set for both ConnSuccess and DisconnSuccess events |
| 110 | (6E) | BITSTRING | 8 | IXGENFCONNDISCLOGSTREAMINSVER | Alternate name for DASD only log stream. STCK value when the log stream staging data set was allocated |
| 118 | (76) | CHARACTER | 8 | IXGENFCONNDISCRESMGRNAME | Resource Manager associated with this log stream. If binary zeroes, no RM is associated with the log stream. This is the resource manager name specified on the log stream's inventory record. To check if the resource manager is connected, check field IxgenfConnDiscResMgr- -Connected. Set for both connect and disconnect events |
| 126 | (7E) | CHARACTER | 8 | IXGENFCONNDISCRESMGRDATA | Resource Manager Data. Contains valid data only if IxgenfConnDiscResMgr- -Connected is set. Set for both connect and disconnect events |
| 134 | (86) | BITSTRING | 1 | IXGENFCONNDISCRESMGREVENTS (0) | Monitored events. Contains valid data only if IxgenfConnDiscResMgr- -Connected is set |
| | | 1... | | IXGENFCONNDISCLBWRITES | "X'80" If set, the resource manager is monitoring log block write events |
| | | .1.. | | IXGENFCONNDISCLBDELETES | "X'40" If set, the resource manager is monitoring log block delete events |
| 135 | (87) | BITSTRING | 1 | IXGENFCONNDISCFLAGS (0) | Additional flags |
| | | 1... | | IXGENFCONNDISCAUTHREAD | "X'80" If set then AUTH=READ specified on the connect request. Set for successful connect requests. |
| | | .1.. | | IXGENFCONNDISCAUTHWRITE | "X'40" If set then AUTH=WRITE specified on the connect request. Set for successful connect requests |
| | | ..1. | | IXGENFCONNDISCRESMGRMANAGED | "X'20" If set, RMNAME keyword specified on log stream definition |
| | | ...1 | | IXGENFCONNDISCRESMGRCONNECTED | "X'10" If set, resource manager is connected to the log stream. Valid for both connect and disconnect events |
| | | 1... | | IXGENFCONNDISCCONNECT | "X'08" If set, this parmlist represents a connect request |
| | |1.. | | IXGENFCONNDISCDISCONNECT | "X'04" If set, this parmlist represents a disconnect request |
| | |1. | | IXGENFCONNDISCUSINGPHYSSTR | "X'02" On=Using physical structure |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|--|--|
| Dec | Hex | | | | |
| | |1 | | IXGENFCONNDISCUSINGPHYSSTR2 | "X'01" On=Using 2nd physical struct |
| 136 | (88) | SIGNED | 4 | IXGENFCONNDISCNUMOFREADS | Number of read connections to this log stream. Set for both connect and disconnect events |
| 140 | (8C) | SIGNED | 4 | IXGENFCONNDISCNUMOFWRITES | Number of write connections to this log stream. Set for both connect and disconnect events |
| 144 | (90) | CHARACTER | 16 | IXGENFCONNDISCLSDescription | LS Description data specified when the log stream was defined or its definition updated in inventory |
| 160 | (A0) | CHARACTER | 16 | IXGENFCONNDISCLOGSTREAMPHYSSTRSVERS (0) | Version numbers of physical structures |
| 160 | (A0) | CHARACTER | 8 | IXGENFCONNDISCLOGSTREAMPHYSSTRVER (0) | Physical structure version number of the CF structure associated with this log stream. Set for both ConnSuccess and DisconnSuccess events |
| 160 | (A0) | CHARACTER | 8 | IXGENFCONNDISCLOGSTREAMPHYSINSVER | Alternate name for DASD only log stream. STCK value when the log stream staging data set was allocated |
| 168 | (A8) | CHARACTER | 8 | IXGENFCONNDISCLOGSTREAMPHYSSTR2VER | Second physical structure version number of the CF structure associated with this log stream. Set for both ConnSuccess and DisconnSuccess events |
| 60 | (3C) | CHARACTER | 42 | IXGENFWROFFLOADINFO (0) | Writer Offload has completed from Logger inventory |
| 60 | (3C) | BITSTRING | 8 | IXGENFWROFFLOADGMTTIMESTAMP | Time stamp |
| 68 | (44) | CHARACTER | 26 | IXGENFWROFFLOADLOGSTREAMNAME | log stream name |
| 94 | (5E) | CHARACTER | 8 | IXGENFWROFFLOADSAFEIMPORTPOINT | Highest log block id, that is no longer in the coupling facility |
| 60 | (3C) | CHARACTER | 26 | IXGENFLOGSTREAMNAMES | Name(s) of log streams that are connected to the structure and affected by the reported event |
| 60 | (3C) | X'D5C640' | 0 | IXGENFEYECATCHER | "C'ENF '" |
| 60 | (3C) | X'56' | 0 | IXGENF_LEN | ***-IXGENF" |

IXGENF Cross Reference

| Name | Hex Offset | Hex Value |
|--------------------------|------------|-----------|
| IXGENF | 0 | |
| IXGENF_LEN | 3C | 56 |
| IXGENFACRONYM | 0 | |
| IXGENFCFRESOURCECHANGE | 10 | 2 |
| IXGENFCOMMON | 0 | |
| IXGENFCOMPONENT | 4 | |
| IXGENFCOMPONENTERROR | 11 | 80 |
| IXGENFCONNDISCAUTHREAD | 87 | 80 |
| IXGENFCONNDISCAUTHWRITE | 87 | 40 |
| IXGENFCONNDISCONNECT | 87 | 8 |
| IXGENFCONNDISCDISCONNECT | | |

| Name | Hex Offset | Hex Value |
|-----------------------------------|------------|-----------|
| IXGENFCONNDISCFLAGS | 87 | 4 |
| IXGENFCONNDISCGMTTIMESTAMP | 44 | |
| IXGENFCONNDISCINFO | 3C | |
| IXGENFCONNDISCLBDELETES | 86 | 40 |
| IXGENFCONNDISCLBWRITES | 86 | 80 |
| IXGENFCONNDISCLOGSTREAMDEFTIME | 66 | |
| IXGENFCONNDISCLOGSTREAMINSVER | 6E | |
| IXGENFCONNDISCLOGSTREAMNAME | 4C | |
| IXGENFCONNDISCLOGSTREAMPHYSINSVER | | |

IXGENF Cross Reference

| Name | Hex Offset | Hex Value |
|---------------------------------------|------------|-----------|
| | A0 | |
| IXGENFCONNDISCLCLOGSTREAMPHYSSTRSVERS | A0 | |
| IXGENFCONNDISCLCLOGSTREAMPHYSSTRVER | A0 | |
| IXGENFCONNDISCLCLOGSTREAMPHYSSTR2VER | A8 | |
| IXGENFCONNDISCLCLOGSTREAMSTRVER | 6E | |
| IXGENFCONNDISCLSDDESCRIPTION | 90 | |
| IXGENFCONNDISCLSDNUMOFREADS | 88 | |
| IXGENFCONNDISCLSDNUMOFWRITES | 8C | |
| IXGENFCONNDISCLSDCRESMGRCONNECTED | 87 | 10 |
| IXGENFCONNDISCLSDCRESMGRDATA | 7E | |
| IXGENFCONNDISCLSDCRESMGREVENTS | 86 | |
| IXGENFCONNDISCLSDCRESMGRMANAGED | 87 | 20 |
| IXGENFCONNDISCLSDCRESMGRNAME | 76 | |
| IXGENFCONNDISCLSDSYSNAME | 3C | |
| IXGENFCONNDISCLSDUSINGPHYSSTR | 87 | 2 |
| IXGENFCONNDISCLSDUSINGPHYSSTR2 | 87 | 1 |
| IXGENFEVENTREASONS | 10 | |
| IXGENFEVENTREASONSBYTE0 | 10 | |
| IXGENFEVENTREASONSBYTE1 | 11 | |
| IXGENFEVENTREASONSBYTE2 | 12 | |
| IXGENFEVENTREASONSBYTE3 | 13 | |
| IXGENFEVENTS | C | |
| IXGENFEVENTSBYTE0 | C | |
| IXGENFEVENTSBYTE1 | D | |
| IXGENFEVENTSBYTE2 | E | |
| IXGENFEVENTSBYTE3 | F | |
| IXGENFEVENTSPECIFICINFO | 14 | |
| IXGENFEVENTSPECIFICINFOBYTE0 | 14 | |
| IXGENFEVENTSPECIFICINFOBYTE1 | 15 | |
| IXGENFEVENTSPECIFICINFOBYTE2 | 16 | |
| IXGENFEVENTSPECIFICINFOBYTE3 | 17 | |
| IXGENFEYECATCHER | 3C | D5C640 |
| IXGENFINVENTORYAUTODELETE | 87 | 80 |
| IXGENFINVENTORYAUTODELETEPENDUPD | | |

| Name | Hex Offset | Hex Value |
|--------------------------------------|------------|-----------|
| IXGENFINVENTORYDASDONLYYES | D0 | 40 |
| IXGENFINVENTORYDEFINEREQ | 86 | 4 |
| IXGENFINVENTORYDEFUPDATE | 86 | 80 |
| IXGENFINVENTORYDEFUPDATE1 | 3C | |
| IXGENFINVENTORYDELETE | 3C | |
| IXGENFINVENTORYDELGMTTIMESTAMP | 3C | |
| IXGENFINVENTORYDELLOGSTREAMNAME | 4C | |
| IXGENFINVENTORYDELRESMGRNAME | 66 | |
| IXGENFINVENTORYDELSYSNAME | 44 | |
| IXGENFINVENTORYDUPLEXMODECONDPENDUPD | D2 | 80 |
| IXGENFINVENTORYEHLQ | E8 | |
| IXGENFINVENTORYEXT1 | 86 | 1 |
| IXGENFINVENTORYEXT1AREA | D0 | |
| IXGENFINVENTORYFLAGS | 86 | |
| IXGENFINVENTORYFLAGSO | 86 | |
| IXGENFINVENTORYFLAGSI | 87 | |
| IXGENFINVENTORYFW1 | E4 | |
| IXGENFINVENTORYGMTTIMESTAMP | 3C | |
| IXGENFINVENTORYHIGHOFFLOAD | BC | |
| IXGENFINVENTORYHIGHOFFLOADPENDUPD | D1 | 80 |
| IXGENFINVENTORYLOGGERDUPLEXCOND | 86 | 2 |
| IXGENFINVENTORYLOGGERDUPLEXPENDUPD | D1 | 2 |
| IXGENFINVENTORYLOGSTREAMDEFTIME | 66 | |
| IXGENFINVENTORYLOGSTREAMNAME | 4C | |
| IXGENFINVENTORYLOWOFFLOAD | B8 | |
| IXGENFINVENTORYLOWOFFLOADPENDUPD | D0 | 1 |
| IXGENFINVENTORYLSDATACLAS | A0 | |
| IXGENFINVENTORYLSDATACLASPENDUPD | D0 | 8 |
| IXGENFINVENTORYLSDDESCRIPTION | C0 | |
| IXGENFINVENTORYLSMGMTCLAS | A8 | |
| IXGENFINVENTORYLSMGMTCLASPENDUPD | D0 | 4 |
| IXGENFINVENTORYLSSIZE | D8 | |

| Name | Hex Offset | Hex Value |
|-------------------------------------|------------|-----------|
| IXGENFINVENTORYLSSIZEPENDUPD | D0 | 10 |
| IXGENFINVENTORYLSSSTORCLAS | B0 | |
| IXGENFINVENTORYLSSSTORCLASPENDUPD | D0 | 2 |
| IXGENFINVENTORYMAXBUFSIZE | E0 | |
| IXGENFINVENTORYMAXBUFSIZEPENDUPD | D1 | 4 |
| IXGENFINVENTORYMODELYES | 86 | 8 |
| IXGENFINVENTORYOFFLOADRECALLPENDUPD | D0 | 20 |
| IXGENFINVENTORYOFFRECALL | 87 | 40 |
| IXGENFINVENTORYPENDUPDFLAGS | D0 | |
| IXGENFINVENTORYPENDUPDFLAGS0 | D0 | |
| IXGENFINVENTORYPENDUPDFLAGS1 | D1 | |
| IXGENFINVENTORYPENDUPDFLAGS2 | D2 | |
| IXGENFINVENTORYRESMGRNAME | 6E | |
| IXGENFINVENTORYRETPD | E5 | |
| IXGENFINVENTORYRETPDPENDUPD | D0 | 80 |
| IXGENFINVENTORYRSVD | 109 | |
| IXGENFINVENTORYSTGDATACLAS | 88 | |
| IXGENFINVENTORYSTGDATACLASPENDUPD | D1 | 20 |
| IXGENFINVENTORYSTGDUPELXYES | 86 | 20 |
| IXGENFINVENTORYSTGDUPELXYESPENDUPD | D1 | 1 |
| IXGENFINVENTORYSTGMGMTCLAS | 90 | |
| IXGENFINVENTORYSTGMGMTCLASPENDUPD | D1 | 10 |
| IXGENFINVENTORYSTGMODECOND | 86 | 10 |
| IXGENFINVENTORYSTGSGIZE | DC | |
| IXGENFINVENTORYSTGSGIZEPENDUPD | D1 | 40 |
| IXGENFINVENTORYSTGSTORCLAS | 98 | |
| IXGENFINVENTORYSTGSTORCLASPENDUPD | D1 | 8 |
| IXGENFINVENTORYSTRUCTNAME | 76 | |
| IXGENFINVENTORYSYSNAME | 44 | |
| IXGENFINVENTORYUPDATEREQ | 86 | 40 |
| IXGENFLOGSTREAMCONNDISC | C | 2 |
| IXGENFLOGSTREAMCOUNT | 28 | |
| IXGENFLOGSTREAMDEFUPDATE | | |

| Name | Hex Offset | Hex Value |
|----------------------------------|------------|-----------|
| | D | 80 |
| IXGENFLOGSTREAMDELETE | D | 40 |
| IXGENFLOGSTREAMDISCONNECTED | 14 | 8 |
| IXGENFLOGSTREAMNAMES | 3C | |
| IXGENFLOGSTREAMOFFLOADCOMPLETE | D | 20 |
| IXGENFLOGSTREAMRESOURCECHANGE | C | 8 |
| IXGENFLOGSTREAMSAVAILABLE | C | 20 |
| IXGENFLOGSTREAMSNOTAVAILABLE | C | 10 |
| IXGENFLOGSTREAMSTORAGEAVAILABLE | 10 | 8 |
| IXGENFLOSSOFCONNECTIVITY | 14 | 10 |
| IXGENFLOSSOFDATA | 10 | 4 |
| IXGENFREQLOGRESNOTAVAIL | 11 | 20 |
| IXGENFRESMGRABENDCODE | 7E | |
| IXGENFRESMGRDATA | 66 | |
| IXGENFRESMGRDISABLED | 3C | |
| IXGENFRESMGRGMTTIMESTAMP | 3C | |
| IXGENFRESMGRLOGSTREAMNAME | 44 | |
| IXGENFRESMGRSDESCRIPTION | 6E | |
| IXGENFRESMGRNAME | 5E | |
| IXGENFRMDISABLED | D | 10 |
| IXGENFSTAGINGDSSTORAGEAVAILABLE | 10 | 10 |
| IXGENFSTGALLOCERR | 14 | 4 |
| IXGENFSTRNAME | 18 | |
| IXGENFSTRREBUILDCFDUPLEX | 14 | 20 |
| IXGENFSTRREBUILDCOMPLETE | 10 | 40 |
| IXGENFSTRREBUILDFAILED | 10 | 20 |
| IXGENFSTRREBUILDFAILLOSSCONN | 14 | 80 |
| IXGENFSTRREBUILDFAILSTRFAIL | 14 | 40 |
| IXGENFSTRREBUILDSTART | 10 | 80 |
| IXGENFSTRRESOURCECHANGE | 11 | 40 |
| IXGENFSYSTEMLOGGERAVAIL | C | 80 |
| IXGENFSYSTEMLOGGERNOTAVAILFORIPL | C | 40 |
| IXGENFSYSTEMLOGGERRESOURCECHG | C | 4 |

IXGENF Cross Reference

| Name | Hex Offset | Hex Value |
|--------------------------------|---------------|--------------|
| IXGENFUNION1 | 3C | |
| IXGENFWROFFLOADGMTTIMESTAMP | 3C | |
| IXGENFWROFFLOADINFO | 3C | |
| IXGENFWROFFLOADLOGSTREAMNAME | 44 | |
| IXGENFWROFFLOADSAFEIMPORTPOINT | 5E | |
| IXGENFXESRECOMMENDACTION | 10 | 1 |

IXGQBUF Programming Interface information

Programming Interface information

IXGQBUF

End of Programming Interface information

IXGQBUF Heading Information

Common Name: Query Buffer
Macro ID: IXGQBUF
DSECT Name: QBUF
Owning Component: System Logger (SCLOG)
Eye-Catcher ID: NONE
Storage Attributes: Main Storage: Caller's storage or function dynamic storage
Size: 72 bytes
 QBUF -- X'0048' bytes
Created by: CALLER
Pointed to by: CALLER
Serialization: None required
Function: Maps information returned by IXGQUERY

IXGQBUF Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------------------|-----|-----------------------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | QBUF | Mapping of returned buffer when IXGQUERY requested |
| 0 | (0) | CHARACTER | 68 | QBUF_SECTION_BEGIN (0) | |
| 0 | (0) | SIGNED | 4 | QBUF_VERSION_NUMBER | Version number of this mapping |
| 4 | (4) | CHARACTER | 8 | QBUF_SAFE_IMPORT_POINT | All log blocks with a blockid less than or equal to this 8-byte integer can be safely imported into a log stream |
| 12 | (C) | CHARACTER | 8 | QBUF_STRUCT_VERSION_NUMBER (0) | Logical structure version number of the coupling facility being used to support this log stream |
| 12 | (C) | CHARACTER | 8 | QBUF_INSTANCE_VERSION_NUMBER | Alternate name |
| 20 | (14) | SIGNED | 4 | QBUF_CONTROL_INFO_SIZE | Number of bytes that System Logger adds to a log block written via the IXGWRITE service |
| 24 | (18) | CHARACTER | 8 | QBUF_LS_TIMESTAMP | 8 Byte time stamp assigned to the log stream. If zero, no time stamp is assigned |
| 32 | (20) | CHARACTER | 8 | QBUF_NEXT_BLOCKID_TO_BE_ASSIGNED | Next log block id to be assigned when a log block is successfully written to the log stream. May change over a rebuild operation |
| 40 | (28) | CHARACTER | 8 | QBUF_CF_TIMESTAMP_VALUE | GMT Time stamp value maintained in the coupling facility for this log stream. The next log block written or imported to this log stream must have a GMT time stamp value >= to this value |
| 48 | (30) | BITSTRING 1... | 1 | QBUF_FLAGS (0) QBUF_AUTODELETE | Flag byte |
| | | .1.. | | QBUF_LOSSOFDATA | "X'80" ON, log stream data may be deleted whenever the retention period expires or whenever the data has been deleted via an IXGDELET request. OFF, log data may be deleted only after the retention period expires and the data has been deleted via an IXGDELET request. |
| | | ..1. | | QBUF_USING_PHYSICAL_STRUCT | "X'40" ON, the log stream has a lost log data. The range of log data the is affected is identified by QBUF_low_loss_of_data_blkid and QBUF_high_loss_of_data_blkid. OFF, the log stream has not encountered a loss of log data. |
| | | | | | "X'20" On=Using physical structure |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|--|------|------------|-----|------------------------------------|--|
| Dec | Hex | | | | |
| | | ...1 | | QBUF_USING_PHYSICAL_STRUCT2 | "X'10" On=Using 2nd physical struct |
| 49 | (31) | SIGNED | 3 | QBUF_RETPD | Log stream data retention period |
| Comment | | | | | |
| <p>The following two fields represent the loss of data bounds for a log stream and are valid only when QBUF_LossOfData is ON. The following examples are meant to help explain the contents of these two fields, which are the "low loss of data bound" and the "high loss of data bound". Ex. 1 - assume the log stream has 8 log blocks, with block ids 1 thru 8 before a loss of data occurs and time increase as the block ids increase. BlkIDs in LS \| 1 2 3 4 5 6 7 8 \|. After a loss of data that causes log blocks 5 and 6 to be lost, the log stream looks like: BlkIDs in LS \| 1 2 3 4 loss of data 7 8 \|. IXGQUERY will return: QBUF_low_loss_of_data_blkid = 4 QBUF_high_loss_of_data_blkid = >8 where >8 means a block id that will be the first block ID to be assign to the first log block write after the loss of data occurs. Ex. 2 - assume the log stream has 8 log blocks, with block ids 1 thru 8 before a loss of data occurs and time increase as the block ids increase. BlkIDs in LS \| 1 2 3 4 5 6 7 8 \|. After a loss of data that causes log blocks 5 thru 8 to be lost, the log stream looks like: BlkIDs in LS \| 1 2 3 4 loss of data \|. IXGQUERY will return: QBUF_low_loss_of_data_blkid = 4 QBUF_high_loss_of_data_blkid = > 8 where >8 means a block id that will be the first block ID to be assign to the first log block write after the loss of data occurs. Ex. 3 - assume the log stream has 8 log blocks, 1 thru 8 before a loss of data occurs and time increase as the block ids increase. BlkIDs in LS \| 1 2 3 4 5 6 7 8 \|. After a loss of data that causes log blocks 1 thru 8 to be lost, the log stream looks like: BlkIDs in LS \| loss of data. \|. IXGQUERY will return: QBUF_low_loss_of_data_blkid = < 1 where <1 means a block id that will be less than any block ID in the log stream. QBUF_high_loss_of_data_blkid = > 8 where >8 means a block id that will be the first block ID to be assign to the first log block write after the loss of data occurs.</p> | | | | | |
| End of Comment | | | | | |
| 52 | (34) | CHARACTER | 8 | QBUF_LOW_LOSS_OF_DATA_BLKID | If log stream has encountered a loss of data condition, this field contains a log block id just prior to (older than) the first occurrence of the loss of data range in the log stream. Note, as the prior examples indicate, there is no guaranteed that this block ID represents a valid log block ID in the log stream (see Ex. 3). |
| 60 | (3C) | CHARACTER | 8 | QBUF_HIGH_LOSS_OF_DATA_BLKID | If log stream has encountered a loss of data condition, this field contains a log block id just after (younger than) the loss of data range in the log stream. Note, as the prior examples indicate, there is no guaranteed that this block ID represents a valid log block ID in the log stream (see Ex. 2). |
| 68 | (44) | CHARACTER | 4 | QBUF_RESERVED | Insert filler bytes to insure QBUF section is a multiple of doublewords in length |
| 72 | (48) | CHARACTER | 1 | QBUF_SECTION_END (0) | End of original QBUF Section |
| 72 | (48) | CHARACTER | 16 | QBUF_VERSION1_SECTION_BEGIN (0) | Beginning of Version 1 data |

IXGQBUF Cross Reference

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|--------------------------------------|--|
| Dec | Hex | | | | |
| 72 | (48) | CHARACTER | 16 | QBUF_PHYSICAL_STRUCT_VERSIONS (0) | |
| 72 | (48) | CHARACTER | 8 | QBUF_PHYSICAL_STRUCT_VERSION (0) | Physical structure version number of the second coupling facility being used to support this log stream |
| 72 | (48) | CHARACTER | 8 | QBUF_PHYSICAL_INSTANCE_VERSION | Alternate name |
| 80 | (50) | CHARACTER | 8 | QBUF_PHYSICAL_STRUCT_VERSION2 (0) | Second physical structure version number of the second coupling facility being used to support this log stream |
| 80 | (50) | CHARACTER | 8 | QBUF_PHYSICAL_INSTANCE_VERSION2 | Alternate name |
| 88 | (58) | CHARACTER | 1 | QBUF_VERSION1_RESERVED (0) | Insert filler bytes to insure QBUF Version 1 section is a multiple of doublewords in length |
| 88 | (58) | CHARACTER | 1 | QBUFEND (0) | End of QBUF |
| 88 | (58) | X'48' | 0 | QBUF_LENGTH | "72" |
| 88 | (58) | X'58' | 0 | QBUF_VERSION1_LENGTH | "88" |
| 88 | (58) | X'0' | 0 | QBUFVERNUM | "0" |
| 88 | (58) | X'1' | 0 | QBUFVERONE | "1" |
| 88 | (58) | X'58' | 0 | QBUF_LEN | "*-QBUF" |

IXGQBUF Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------------------------------|------------|-----------|-----------------------------|------------|-----------|
| QBUF | 0 | | QBUF_RETPD | 31 | |
| QBUF_AUTODELETE | | | QBUF_SAFE_IMPORT_POINT | | |
| | 30 | 80 | | 4 | |
| QBUF_CF_TIMESTAMP_VALUE | | | QBUF_SECTION_BEGIN | | |
| | 28 | | | 0 | |
| QBUF_CONTROL_INFO_SIZE | | | QBUF_SECTION_END | | |
| | 14 | | | 48 | |
| QBUF_FLAGS | 30 | | QBUF_STRUCT_VERSION_NUMBER | | |
| QBUF_HIGH_LOSS_OF_DATA_BLKID | | | | C | |
| | 3C | | QBUF_USING_PHYSICAL_STRUCT | | |
| QBUF_INSTANCE_VERSION_NUMBER | | | | 30 | 20 |
| | C | | QBUF_USING_PHYSICAL_STRUCT2 | | |
| QBUF_LEN | 58 | 58 | | 30 | 10 |
| QBUF_LENGTH | 58 | 48 | QBUF_VERSION_NUMBER | | |
| QBUF_LOSSOFDATA | | | | 0 | |
| | 30 | 40 | QBUF_VERSION1_LENGTH | | |
| QBUF_LOW_LOSS_OF_DATA_BLKID | | | | 58 | 58 |
| | 34 | | QBUF_VERSION1_RESERVED | | |
| QBUF_LS_TIMESTAMP | | | | 58 | |
| | 18 | | QBUF_VERSION1_SECTION_BEGIN | | |
| QBUF_NEXT_BLOCKID_TO_BE_ASSIGNED | | | | 48 | |
| | 20 | | QBUFEND | 58 | |
| QBUF_PHYSICAL_INSTANCE_VERSION | | | QBUFVERNUM | 58 | 0 |
| | 48 | | QBUFVERONE | 58 | 1 |
| QBUF_PHYSICAL_INSTANCE_VERSION2 | | | | | |
| | 50 | | | | |
| QBUF_PHYSICAL_STRUCT_VERSION | | | | | |
| | 48 | | | | |
| QBUF_PHYSICAL_STRUCT_VERSIONS | | | | | |
| | 48 | | | | |
| QBUF_PHYSICAL_STRUCT_VERSION2 | | | | | |
| | 50 | | | | |
| QBUF_RESERVED | | | | | |
| | 44 | | | | |

IXGRMEPL Programming Interface information

Programming Interface information

IXGRMEPL

End of Programming Interface information

IXGRMEPL Heading Information

Common Name: Resource Manager Exit Parameter List
Macro ID: IXGRMEPL
DSECT Name: RMEPL
Owning Component: Cross System Extended Services (SCLOG)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: 229
 Key: Key 0
 Residency: Above 16 MB in virtual storage.
Size: 384 bytes
 RMEPL -- X'0180' bytes
Created by: SCLOG
Pointed to by: First word in parameter list provided to Resource Manager Exit
Serialization: None required
Function: Maps parameter list to the Resource Manager exit
 specified on an IXGCONN request

IXGRMEPL Map

| Offsets | | | | | |
|---------|------|------------|-----|--------------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | RMEPL | Resource Manager exit parameter list |
| 0 | (0) | CHARACTER | 128 | RMEPLSECTIONBEGIN (0) | Beginning of common section |
| 0 | (0) | SIGNED | 4 | RMEPLVERSIONNUMBER | Version Number of this mapping of the RMEPL |
| 4 | (4) | BITSTRING | 4 | RMEPLFLAGS (0) | Flags |
| | | 1... | | RMEPLDELETEREQUEST | "X'80" If on, this parameter list represents a delete request |
| | | .1... | | RMEPLWRITEREQUEST | "X'40" If on, this parameter list represents a write request. Log data are contained in a single buffer |
| 8 | (8) | BITSTRING | 8 | RMEPLGMTTIMESTAMP | STCK value. Obtained immediately prior to calling the resource manager |
| 16 | (10) | CHARACTER | 8 | RMEPLRMNAME | Resource Manager Name |
| 24 | (18) | CHARACTER | 8 | RMEPLRMDATA | Associated RMDATA specified on the RM's IXGCONN request |
| 32 | (20) | CHARACTER | 16 | RMEPLIDENTIFICATION | System-unique identification of the connection on whose behalf the exit is being called |
| 48 | (30) | CHARACTER | 16 | RMEPLLSDESCRIPTION | Log Stream Description from log stream inventory record. If binary zeroes, no description exists |
| 64 | (40) | CHARACTER | 26 | RMEPLLOGSTREAMNAME | Log stream name |
| 90 | (5A) | CHARACTER | 2 | RMEPLRSVD1 | Reserved |
| 92 | (5C) | CHARACTER | 36 | RMEPLREQUESTINFO (0) | Specific information about the request that caused the RM Exit to be given control |
| 92 | (5C) | CHARACTER | 18 | RMEPLDELETEINFO (0) | Delete request information |
| 92 | (5C) | BITSTRING | 2 | RMEPLDELETEFLAGS (0) | Bits in this structure are set only if the parameter list represents a delete log block request |
| | | 1... | | RMEPLBLOCKSALLSPECIFIED | "X'80" If set, BLOCKS=ALL specified on IXGDELETE request |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|----------------------------|--|
| Dec | Hex | | | | |
| | | .1.. | | RMEPLBLOCKSRANGESPECIFIED | "X'40" If set, BLOCKS = RANGE specified in IXGDELETE request |
| | | ..1. | | RMEPLFORCESPECIFIED | "X'20" If set, the issue of the issuer of IXGDELETE specified FORCE=YES and this delete request cannot be overridden. |
| 94 | (5E) | CHARACTER | 8 | RMEPLDELETEBLOCKID | Blockid specified by the issuer of IXGDELET when BLOCK=RANGE specified |
| 102 | (66) | CHARACTER | 8 | RMEPLDELETEOVERRIDEBLOCKID | Override block id. Resource Manager places the override blockid in this variable if it wishes to override the delete request. On entry to the exit, this field is initialized to binary zeroes. If still binary zeroes upon return from the exit, then delete request proceeds as requested by the issuer of IXGDELET. If FORCE=YES specified, content of this field is ignored. |
| 92 | (5C) | CHARACTER | 36 | RMEPLWRITEINFO (0) | Write Information |
| 92 | (5C) | SIGNED | 4 | RMEPLADDEDBYTES | Number of bytes that the Logger 'adds' to a user's log block (prefix and suffix information). The prefix and suffix areas are not 'seen' in the copy of the user's buffer presented to the resource manager. Adding together RmeplWriteBlockID, RmeplLogDataLength and RmeplAddedBytes can be used to calculate the next block id to be assigned for a log block written to the log stream |
| 96 | (60) | SIGNED | 4 | RMEPLLOGDATALENGTH | Number of bytes of user log data specified. This is the BLOCKLEN value specified on the IXGWRITE request |
| 100 | (64) | ADDRESS | 4 | RMEPLWRITEBUFFERPTR | Pointer to the buffer that contains the log data that were written to the log stream if RmeplWriteRequest is set to on |
| 104 | (68) | CHARACTER | 8 | RMEPLWRITEBLOCKID | Block id assigned to the log block |
| 112 | (70) | BITSTRING | 8 | RMEPLWRITEGMTTIMESTAMP | Timestamp assigned to the log block |
| 120 | (78) | BITSTRING | 8 | RMEPLWRITELOCALTIMESTAMP | local time stamp assigned to the log block |
| 128 | (80) | CHARACTER | 256 | RMEPL_RMEXIT_WORK_AREA | 256 byte work area that the resource manager exit can use |
| 384 | (180) | CHARACTER | 1 | RMEPL_RESERVED (0) | Insert filler bytes to insure RMEPL section is a multiple of doublewords in length |
| 384 | (180) | CHARACTER | 1 | RMEPLEND (0) | End of RMEPL |
| 384 | (180) | X'180' | 0 | RMEPL_LENGTH | "384" |
| 384 | (180) | X'0' | 0 | RMEPLVERNUM | "0" |
| 384 | (180) | X'180' | 0 | RMEPL_LEN | "*-RMEPL" |

IXGRMEPL Cross Reference

IXGRMEPL Cross Reference

| Name | Hex Offset | Hex Value |
|----------------------------|---------------|--------------|
| RMEPL | 0 | |
| RMEPL_LEN | 180 | 180 |
| RMEPL_LENGTH | 180 | 180 |
| RMEPL_RESERVED | 180 | |
| RMEPL_RMEXIT_WORK_AREA | 80 | |
| RMEPLADDEDBYTES | 5C | |
| RMEPLBLOCKSALLSPECIFIED | 5C | 80 |
| RMEPLBLOCKSRANGESPECIFIED | 5C | 40 |
| RMEPLDELETEBLOCKID | 5E | |
| RMEPLDELETEFLAGS | 5C | |
| RMEPLDELETEINFO | 5C | |
| RMEPLDELETEOVERRIDEBLOCKID | 66 | |
| RMEPLDELETEREQUEST | 4 | 80 |
| RMEPLEND | 180 | |
| RMEPLFLAGS | 4 | |
| RMEPLFORCESPECIFIED | 5C | 20 |
| RMEPLGMTTIMESTAMP | 8 | |
| RMEPLIDENTIFICATION | 20 | |
| RMEPLLOGDATALENGTH | 60 | |
| RMEPLLOGSTREAMNAME | 40 | |
| RMEPLLSDESCRIPTION | 30 | |
| RMEPLREQUESTINFO | 5C | |
| RMEPLRMDATA | 18 | |
| RMEPLRMNAME | 10 | |
| RMEPLRSVD1 | 5A | |
| RMEPLSECTIONBEGIN | 0 | |
| RMEPLVERNUM | 180 | 0 |
| RMEPLVERSIONNUMBER | 0 | |
| RMEPLWRITEBLOCKID | 68 | |
| RMEPLWRITEBUFFERPTR | 64 | |
| RMEPLWRITEGMTTIMESTAMP | 70 | |
| RMEPLWRITEINFO | 5C | |
| RMEPLWRITELOCALTIMESTAMP | 78 | |
| RMEPLWRITEREQUEST | 4 | 40 |

IXGSXAP Programming Interface information

Programming Interface information

IXGSXAP

End of Programming Interface information

IXGSXAP Heading Information

Common Name: LOGR subsystem data set interface exit allocation specific parameter list
Macro ID: IXGSXAP
DSECT Name: IXGSXAP
Owning Component: System Logger (SCLOG)
Eye-Catcher ID: 'IXGSXAP '
 Offset: 0
 Length: 8
Storage Attributes: Subpool: 236 or 237
 Key: 1
 Residency: ANY
Size: 40 bytes ('28'X)
 Frequency: 1 per allocation request of a LOGR subsystem data set - DD SUBSYS=(LOGR,...)
Created by: LOGR subsystem data set interface routine
Pointed to by: IXGSXCMP_SPECIFIC_PTR field in the IXGSXCMP data area
Serialization: None
Function: Allocation specific LOGR subsystem data set interface exit parameter list.

IXGSXAP Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|------------------------|------|------------|-----|-----------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | IXGSXAP | , IXGSXAP data area mapping |
| 0 | (0) | SIGNED | 4 | IXGSXAP_START (0) | |
| 0 | (0) | CHARACTER | 8 | IXGSXAP_ID | Ensure word alignment |
| 8 | (8) | BITSTRING | 1 | IXGSXAP_VERSION | Eye catcher 'IXGSXAP ' |
| 9 | (9) | BITSTRING | 1 | IXGSXAP_IN_RSVD1 | Version number |
| 10 | (A) | BITSTRING | 2 | IXGSXAP_LENGTH | Reserved for IBM |
| 12 | (C) | CHARACTER | 8 | IXGSXAP_DDNAME | Length of IXGSXAP |
| 20 | (14) | ADDRESS | 4 | IXGSXAP_JFCB_PTR | Name of DD or blanks if the name was not available |
| 24 | (18) | ADDRESS | 4 | IXGSXAP_MSG_PTR | Pointer to a copy of the JFCB for the DD |
| 28 | (1C) | SIGNED | 2 | IXGSXAP_MSG_LEN | Pointer to message area (refer to IXGSXMSP). The length of the area is set in IXGSXAP_MSG_LEN. |
| 30 | (1E) | CHARACTER | 6 | IXGSXAP_IN_RSVD2 | Maximum size of area pointed to by IXGSXAP_MSG_PTR. |
| | | | | | Reserved for IBM |
| Comment | | | | | |
| Start of output fields | | | | | |
| End of Comment | | | | | |
| 36 | (24) | CHARACTER | 2 | IXGSXAP_OUT_FLAGS (0) | Output flag bytes |
| 36 | (24) | BITSTRING | 1 | IXGSXAP_OUT_FLAG1 | Output flag byte 1 |
| | | 1... .. | | IXGSXAP_ISSUE_MSG | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|------------------------------|------|------------|-----|------------------------|--|
| Dec | Hex | | | | |
| | | | | | "X'80" The message contained in the area pointed to by IXGSXAP_MSG_PTR is to be issued |
| 37 | (25) | BITSTRING | 1 | IXGSXAP_OUT_FLAG2 | Reserved for IBM |
| 38 | (26) | SIGNED | 2 | IXGSXAP_INFO_CODE | DD info code |
| 40 | (28) | CHARACTER | 4 | IXGSXAP_OUT_RSVD1 | Reserved for IBM |
| 44 | (2C) | SIGNED | 4 | IXGSXAP_END (0) | End of mapping |
| Comment | | | | | |
| Current Length and Id values | | | | | |
| End of Comment | | | | | |
| 44 | (2C) | X'2C' | 0 | IXGSXAP_CURRENT_LENGTH | "*-IXGSXAP" Assembled length of mapping |
| | |1 | | IXGSXAP_LATEST_VERSION | "X'01" Latest version of mapping |
| | |1 | | IXGSXAP_1ST_VERSION | "X'01" First version of mapping |

IXGSXAP Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|------------------------|------------|-----------|------|------------|-----------|
| IXGSXAP | 0 | | | 2C | 1 |
| IXGSXAP_CURRENT_LENGTH | 2C | 2C | | | |
| IXGSXAP_DDNAME | C | | | | |
| IXGSXAP_END | 2C | | | | |
| IXGSXAP_ID | 0 | | | | |
| IXGSXAP_IN_RSVD1 | 9 | | | | |
| IXGSXAP_IN_RSVD2 | 1E | | | | |
| IXGSXAP_INFO_CODE | 26 | | | | |
| IXGSXAP_ISSUE_MSG | 24 | 80 | | | |
| IXGSXAP_JFCB_PTR | 14 | | | | |
| IXGSXAP_LATEST_VERSION | 2C | 1 | | | |
| IXGSXAP_LENGTH | A | | | | |
| IXGSXAP_MSG_LEN | 1C | | | | |
| IXGSXAP_MSG_PTR | 18 | | | | |
| IXGSXAP_OUT_FLAGS | 24 | | | | |
| IXGSXAP_OUT_FLAG1 | 24 | | | | |
| IXGSXAP_OUT_FLAG2 | 25 | | | | |
| IXGSXAP_OUT_RSVD1 | 28 | | | | |
| IXGSXAP_START | 0 | | | | |
| IXGSXAP_VERSION | 8 | | | | |
| IXGSXAP_1ST_VERSION | | | | | |

IXGSXCMP Programming Interface information

Programming Interface information

IXGSXCMP

End of Programming Interface information

IXGSXCMP Heading Information

Common Name: LOGR subsystem data set interface exit common parameter list
Macro ID: IXGSXCMP
DSECT Name: IXGSXCMP
Owning Component: System Logger (SCLOG)
Eye-Catcher ID: 'IXGSXCMP'
 Offset: 0
 Length: 8
Storage Attributes: Subpool: 230 only on Converter SSI call 236 or 237 on other SSI calls (not fetch protected)
 Key: 1
 Residency: ANY
Size: 108 bytes ('6C'X)
 Frequency: 1 per LOGR subsystem data set, DD SUBSYS=(LOGR,...), for each subsystem data set service event
Created by: LOGR subsystem data set interface routine
Pointed to by: Word 1 of the area pointed to by register 1 on entry to the Log stream owner's subsystem data set interface exit.
Serialization: None
Function: Common LOGR subsystem data set interface exit parameter list.

IXGSXCMP Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-----------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | IXGSXCMP | , IXGSXCMP data area mapping |
| 0 | (0) | SIGNED | 4 | IXGSXCMP_START (0) | |
| 0 | (0) | CHARACTER | 8 | IXGSXCMP_ID | Ensure word alignment |
| 8 | (8) | BITSTRING | 1 | IXGSXCMP_VERSION | Eye catcher 'IXGSXCMP' |
| 9 | (9) | BITSTRING | 1 | IXGSXCMP_EVENT | Version number |
| 10 | (A) | BITSTRING | 2 | IXGSXCMP_LENGTH | Reason for call |
| 12 | (C) | ADDRESS | 4 | IXGSXCMP_SPECIFIC_PTR | Length of IXGSXCMP |
| 16 | (10) | CHARACTER | 8 | IXGSXCMP_JOBNAME | Pointer to the specific event's parameter list extension |
| 24 | (18) | CHARACTER | 26 | IXGSXCMP_LOGNAME | Name of Job - filled in for all calls to exit except on Converter call it is set to blanks |
| 50 | (32) | CHARACTER | 1 | IXGSXCMP_RSVD1 | Name of the log stream taken from the DD DSN= parameter - filled in for all calls to exit except on Converter call it is set to blanks |
| 51 | (33) | BITSTRING | 1 | IXGSXCMP_SUBPOOL | Reserved for IBM |
| 52 | (34) | ADDRESS | 4 | IXGSXCMP_SUBSYS_PTR | Subpool used for storage |
| 56 | (38) | SIGNED | 2 | IXGSXCMP_SUBSYS_SIZE | Pointer to the parameters specified on a SUBSYS= keyword on a DD or Dynalloc text unit (refer to IXGSXTXT) |
| 58 | (3A) | CHARACTER | 2 | IXGSXCMP_RSVD2 | Size of area pointed to by IXGSXCMP_subsys_ptr (size of IXGSXTXT area) |
| | | | | | Reserved for IBM |

| Offsets | | | | | |
|--|------|------------|-----|----------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 60 | (3C) | ADDRESS | 4 | IXGSXCMP_SUBSYS_OPTION2 | Pointer to the Subsys-options2 parameter on a DD or Dynaloc text unit (refer to IXGSXTXT_PAIR portion of IXGSXTXT) |
| 64 | (40) | CHARACTER | 4 | IXGSXCMP_SSNAME | Subsystem Name specified on DD or Dynaloc |
| 68 | (44) | CHARACTER | 8 | IXGSXCMP_EXITNAME | Name of log stream subsystem data set interface exit routine |
| 76 | (4C) | SIGNED | 4 | IXGSXCMP_PARM_FLAGS (0) | Processing flags |
| 76 | (4C) | BITSTRING | 1 | IXGSXCMP_FROM_FLAGS | FROM= specifications |
| | | 1... .. | | IXGSXCMP_FROM_SPECIFIED | "X'80" FROM= was explicitly specified |
| | | .1.. | | IXGSXCMP_FROM_OLDEST | "X'40" Start at Oldest record (block) |
| | | ..1. | | IXGSXCMP_FROM_START | "X'20" Use IXGSXCMP_SEARCH_START |
| 77 | (4D) | BITSTRING | 1 | IXGSXCMP_TO_FLAGS | TO= specifications |
| | | 1... .. | | IXGSXCMP_TO_SPECIFIED | "X'80" TO= was explicitly specified |
| | | .1.. | | IXGSXCMP_TO_YOUNGEST | "X'40" End at Youngest record (block) |
| | | ..1. | | IXGSXCMP_TO_END | "X'20" Use IXGSXCMP_SEARCH_END |
| 78 | (4E) | BITSTRING | 1 | IXGSXCMP_FLAG_1 | Flag byte 1 |
| | | 1... .. | | IXGSXCMP_GMT | "X'80" Use GMT when on, Use LOCAL when off |
| | | .1.. | | IXGSXCMP_DURATION | "X'40" DURATION= was specified |
| | | ..1. | | IXGSXCMP_VIEW | "X'20" ON, VIEW= was specified OFF, VIEW=ACTIVE defaulted |
| | | ...1 | | IXGSXCMP_VIEW_ALL | "X'10" VIEW=ALL was specified |
| | | 1... | | IXGSXCMP_VIEW_INACTIVE | "X'08" VIEW=INACTIVE was specified |
| Comment | | | | | |
| Note: If IXGSXCMP_VIEW is on and both VIEW_ALL and VIEW_INACTIVE are off, then VIEW=ACTIVE is Implied. | | | | | |
| End of Comment | | | | | |
| 79 | (4F) | BITSTRING | 1 | IXGSXCMP_FLAG_2 | Reserved for IBM |
| 80 | (50) | BITSTRING | 8 | IXGSXCMP_SEARCH_START | Date and Time in STCK format. Used as starting point to read records (blocks). Field is valid only when IXGSXCMP_FROM_START is on. |
| 88 | (58) | BITSTRING | 8 | IXGSXCMP_SEARCH_END | Date and Time in STCK format. Used as end point for reading records (blocks). Field is valid only when IXGSXCMP_TO_END is on. |
| Comment | | | | | |
| Start of input/output fields | | | | | |
| End of Comment | | | | | |
| 96 | (60) | ADDRESS | 4 | IXGSXCMP_EXIT_TOKEN | |

IXGSXCMP Map

| Offsets | | | | | |
|---|------|------------|-----|-------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| | | | | | Exit token: - Converter call - not used - Allocation call - 0 on input - Other calls - value returned from previous exit call for the DD |
| 100 | (64) | CHARACTER | 8 | IXGSXCMP_RSVD3 | Reserved for IBM |
| 108 | (6C) | SIGNED | 4 | IXGSXCMP_END (0) | End of mapping |
| Comment | | | | | |
| Current Length and ID values | | | | | |
| End of Comment | | | | | |
| 108 | (6C) | X'6C' | 0 | IXGSXCMP_CURRENT_LENGTH | "*-IXGSXCMP" Assembled length of mapping |
| | |1 | | IXGSXCMP_LATEST_VERSION | "X'01" Latest version of mapping |
| | |1 | | IXGSXCMP_1ST_VERSION | "X'01" First version of mapping |
| Comment | | | | | |
| Values used in field IXGSXCMP_EVENT | | | | | |
| End of Comment | | | | | |
| | |1 | | IXGSXCMP_CONVERTER | "X'01" Converter processing |
| | |1. | | IXGSXCMP_ALLOCATION | "X'02" Allocation processing |
| | |11 | | IXGSXCMP_OPEN | "X'03" OPEN processing |
| | |1.. | | IXGSXCMP_GET | "X'04" GET processing |
| | |1.1 | | IXGSXCMP_CLOSE | "X'05" CLOSE processing |
| | |11. | | IXGSXCMP_UNALLOCATION | "X'06" UnAllocation processing |
| Comment | | | | | |
| Return code values placed in register 15 by exit | | | | | |
| Note that return codes other than 0 and 4 will be treated the same as for return code 20. | | | | | |
| End of Comment | | | | | |
|  |  | .... .... |  | IXGSXCMP_OK | "X'00000000" 0 - Continue job processing |
| | |1.. | | IXGSXCMP_NOT_OK | "X'00000004" 4 - Do not continue job processing |
| | | ...1 .1.. | | IXGSXCMP_ABEND | "X'00000014" 20 - The exit had an ABEND or logical error and could not process the request |

IXGSXCMP Cross Reference

| Name | Hex Offset | Hex Value |
|-------------------------|------------|-----------|
| IXGSXCMP | 0 | |
| IXGSXCMP_ABEND | 6C | 14 |
| IXGSXCMP_ALLOCATION | 6C | 2 |
| IXGSXCMP_CLOSE | 6C | 5 |
| IXGSXCMP_CONVERTER | 6C | 1 |
| IXGSXCMP_CURRENT_LENGTH | 6C | 6C |
| IXGSXCMP_DURATION | 4E | 40 |
| IXGSXCMP_END | 6C | |
| IXGSXCMP_EVENT | 9 | |
| IXGSXCMP_EXIT_TOKEN | 60 | |
| IXGSXCMP_EXITNAME | 44 | |
| IXGSXCMP_FLAG_1 | 4E | |
| IXGSXCMP_FLAG_2 | 4F | |
| IXGSXCMP_FROM_FLAGS | 4C | |
| IXGSXCMP_FROM_OLDEST | 4C | 40 |
| IXGSXCMP_FROM_SPECIFIED | 4C | 80 |
| IXGSXCMP_FROM_START | 4C | 20 |
| IXGSXCMP_GET | 6C | 4 |
| IXGSXCMP_GMT | 4E | 80 |
| IXGSXCMP_ID | 0 | |
| IXGSXCMP_JOBNAME | 10 | |
| IXGSXCMP_LATEST_VERSION | 6C | 1 |
| IXGSXCMP_LENGTH | A | |
| IXGSXCMP_LOGNAME | 18 | |
| IXGSXCMP_NOT_OK | 6C | 4 |
| IXGSXCMP_OK | 6C | 0 |
| IXGSXCMP_OPEN | 6C | 3 |
| IXGSXCMP_PARM_FLAGS | 4C | |
| IXGSXCMP_RSVD1 | 32 | |
| IXGSXCMP_RSVD2 | 3A | |
| IXGSXCMP_RSVD3 | 64 | |
| IXGSXCMP_SEARCH_END | 58 | |
| IXGSXCMP_SEARCH_START | 50 | |
| IXGSXCMP_SPECIFIC_PTR | C | |
| IXGSXCMP_SSNAME | | |

| Name | Hex Offset | Hex Value |
|-------------------------|------------|-----------|
| IXGSXCMP_START | 40 | |
| IXGSXCMP_SUBPOOL | 0 | |
| IXGSXCMP_SUBSYS_OPTION2 | 33 | |
| IXGSXCMP_SUBSYS_PTR | 3C | |
| IXGSXCMP_SUBSYS_SIZE | 34 | |
| IXGSXCMP_TO_END | 38 | |
| IXGSXCMP_TO_FLAGS | 4D | 20 |
| IXGSXCMP_TO_SPECIFIED | 4D | |
| IXGSXCMP_TO_YOUNGEST | 4D | 80 |
| IXGSXCMP_UNALLOCATION | 4D | 40 |
| IXGSXCMP_VERSION | 6C | 6 |
| IXGSXCMP_VIEW | 8 | |
| IXGSXCMP_VIEW_ALL | 4E | 20 |
| IXGSXCMP_VIEW_INACTIVE | 4E | 10 |
| IXGSXCMP_1ST_VERSION | 4E | 8 |
| | 6C | 1 |

IXGSXCNP Programming Interface information

| | | |
|--|--|--|
| | Programming Interface information | |
| | <u>IXGSXCNP</u> | |
| | End of Programming Interface information | |

IXGSXCNP Heading Information

Common Name: LOGR subsystem data set interface exit converter specific parameter list
Macro ID: IXGSXCNP
DSECT Name: IXGSXCNP
Owning Component: System Logger (SCLOG)
Eye-Catcher ID: 'IXGSXCNP'
 Offset: 0
 Length: 8
Storage Attributes: Subpool: 230
 Key: 1
 Residency: ANY
Size: 32 bytes ('20'X)
 Frequency: 1 per converter request of a LOGR subsystem data set - DD SUBSYS=(LOGR,...)
Created by: LOGR subsystem data set interface routine
Pointed to by: IXGSXCMP_SPECIFIC_PTR field in the IXGSXCMP data area
Serialization: None
Function: Converter specific LOGR subsystem data set interface exit parameter list.

IXGSXCNP Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-----------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | IXGSXCNP | , IXGSXCNP data area mapping |
| 0 | (0) | SIGNED | 4 | IXGSXCNP_START (0) | |
| 0 | (0) | CHARACTER | 8 | IXGSXCNP_ID | Ensure word alignment |
| 8 | (8) | BITSTRING | 1 | IXGSXCNP_VERSION | Eye catcher 'IXGSXCNP' |
| 9 | (9) | BITSTRING | 1 | IXGSXCNP_IN_RSVD1 | Version number |
| 10 | (A) | BITSTRING | 2 | IXGSXCNP_LENGTH | Reserved for IBM |
| 12 | (C) | ADDRESS | 4 | IXGSXCNP_MSG_PTR | Length of IXGSXCNP |
| 16 | (10) | SIGNED | 2 | IXGSXCNP_MSG_LEN | Pointer to message area (refer to IXGSXMSP). The length of the area is set in IXGSXCNP_MSG_LEN |
| 18 | (12) | CHARACTER | 6 | IXGSXCNP_IN_RSVD2 | Size of area pointed to by IXGSXCNP_MSG_PTR |
| | | | | | Reserved for IBM |

Comment

Start of output fields

End of Comment

| | | | | | |
|----|------|-----------|---|---------------------------|---|
| 24 | (18) | BITSTRING | 2 | IXGSXCNP_OUT_FLAGS (0) | Output flags |
| 24 | (18) | BITSTRING | 1 | IXGSXCNP_OUT_FLAG1 | Output flag byte 1 |
| | | 1... .. | | IXGSXCNP_ISSUE_MSG | "X'80" The message contained in the area pointed to by IXGSXCNP_MSG_PTR is to be issued |
| 25 | (19) | BITSTRING | 1 | IXGSXCNP_OUT_FLAG2 | Reserved for IBM |
| 26 | (1A) | BITSTRING | 6 | IXGSXCNP_OUT_RSVD1 | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|------------------------------|------|------------|-----|-------------------------|--|
| Dec | Hex | | | | |
| 32 | (20) | SIGNED | 4 | IXGSXCNP_END (0) | Reserved for IBM End of mapping |
| Comment | | | | | |
| Current Length and Id values | | | | | |
| End of Comment | | | | | |
| 32 | (20) | X'20' | 0 | IXGSXCNP_CURRENT_LENGTH | "*-IXGSXCNP" Assembled length of mapping |
| | |1 | | IXGSXCNP_LATEST_VERSION | "X'01" Latest version of mapping |
| | |1 | | IXGSXCNP_1ST_VERSION | "X'01" First version of mapping |

IXGSXCNP Cross Reference

| Name | Hex Offset | Hex Value |
|-------------------------|---------------|--------------|
| IXGSXCNP | 0 | |
| IXGSXCNP_CURRENT_LENGTH | 20 | 20 |
| IXGSXCNP_END | 20 | |
| IXGSXCNP_ID | 0 | |
| IXGSXCNP_IN_RSVD1 | 9 | |
| IXGSXCNP_IN_RSVD2 | 12 | |
| IXGSXCNP_ISSUE_MSG | 18 | 80 |
| IXGSXCNP_LATEST_VERSION | 20 | 1 |
| IXGSXCNP_LENGTH | A | |
| IXGSXCNP_MSG_LEN | 10 | |
| IXGSXCNP_MSG_PTR | C | |
| IXGSXCNP_OUT_FLAGS | 18 | |
| IXGSXCNP_OUT_FLAG1 | 18 | |
| IXGSXCNP_OUT_FLAG2 | 19 | |
| IXGSXCNP_OUT_RSVD1 | 1A | |
| IXGSXCNP_START | 0 | |
| IXGSXCNP_VERSION | 8 | |
| IXGSXCNP_1ST_VERSION | 20 | 1 |

IXGSXGP Programming Interface information

Programming Interface information

IXGSXGP

End of Programming Interface information

IXGSXGP Heading Information

Common Name: LOGR subsystem data set interface exit GET specific parameter list
Macro ID: IXGSXGP
DSECT Name: IXGSXGP
Owning Component: System Logger (SCLOG)
Eye-Catcher ID: 'IXGSXGP '
 Offset: 0
 Length: 8
Storage Attributes: Subpool: 230
 Key: User's key (based on key of program issuing OPEN for the subsystem data set)
 Residency: ANY
Size: 52 bytes ('34'X)
 Frequency: 1 per GET/READ request of a LOGR subsystem data set - DD SUBSYS=(LOGR,...)
Created by: LOGR subsystem data set interface routine
Pointed to by: IXGSXCMP_SPECIFIC_PTR field in the IXGSXCMP data area
Serialization: None
Function: GET specific LOGR subsystem data set interface exit parameter list.

IXGSXGP Map

| Offsets | | | | | |
|------------------------|------|------------|-----|------------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | IXGSXGP | , IXGSXGP data area mapping |
| 0 | (0) | SIGNED | 4 | IXGSXGP_START (0) | |
| | | | | | Ensure word alignment |
| 0 | (0) | CHARACTER | 8 | IXGSXGP_ID | Eye catcher 'IXGSXGP ' |
| 8 | (8) | BITSTRING | 1 | IXGSXGP_VERSION | |
| | | | | | Version number |
| 9 | (9) | BITSTRING | 1 | IXGSXGP_IN_RSVD1 | |
| | | | | | Reserved for IBM |
| 10 | (A) | BITSTRING | 2 | IXGSXGP_LENGTH | |
| | | | | | Length of IXGSXGP |
| 12 | (C) | ADDRESS | 4 | IXGSXGP_DEB_PTR | |
| | | | | | Pointer to the DEB |
| 16 | (10) | ADDRESS | 4 | IXGSXGP_DSAB_PTR | |
| | | | | | Pointer to the DSAB |
| 20 | (14) | ADDRESS | 4 | IXGSXGP_AREA_PTR | |
| | | | | | Pointer to the user buffer area |
| 24 | (18) | SIGNED | 4 | IXGSXGP_BUFF_LEN | |
| | | | | | User buffer length |
| 28 | (1C) | ADDRESS | 4 | IXGSXGP_RECORD_LEN_PTR | |
| | | | | | Pointer to full word field that is to be set with length of record moved to the area pointed to by field IXGSXGP_AREA_PTR |
| 32 | (20) | CHARACTER | 8 | IXGSXGP_IN_RSVD2 | |
| | | | | | Reserved for IBM |
| Comment | | | | | |
| Start of output fields | | | | | |
| End of Comment | | | | | |
| 40 | (28) | BITSTRING | 1 | IXGSXGP_RETURN_CODE | |
| | | | | | Return code to be passed back to invoker of GET |
| 41 | (29) | BITSTRING | 1 | IXGSXGP_ERROR_CODE | |
| | | | | | Error code, used only when IXGSXGP_return_code is non-zero |

| Offsets | | | | | |
|--|------|------------|-----|------------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 42 | (2A) | CHARACTER | 2 | IXGSXGP_OUT_RSVD1 | Reserved for IBM |
| 44 | (2C) | CHARACTER | 8 | IXGSXGP_OUT_RSVD2 | Reserved for IBM |
| 52 | (34) | SIGNED | 4 | IXGSXGP_END (0) | End of mapping |
| Comment | | | | | |
| Current Length and Id values | | | | | |
| End of Comment | | | | | |
| 52 | (34) | X'34' | 0 | IXGSXGP_CURRENT_LENGTH | "*-IXGSXGP" Assembled length of mapping |
| | |1 | | IXGSXGP_LATEST_VERSION | "X'01" Latest version of mapping |
| | |1 | | IXGSXGP_1ST_VERSION | "X'01" First version of mapping |
| Comment | | | | | |
| Return code values placed in field IXGSXGP_RETURN_CODE | | | | | |
| End of Comment | | | | | |
|  |  | .... .... |  | IXGSXGP_OK | "X'00" 0 - record is returned in user area |
| | | 1... | | IXGSXGP_LOGICAL_ERROR | "X'08" 8 - a logical error was encountered |
| | | ...1 1... | | IXGSXGP_SYSTEM_ERROR | "X'18" 24 - the exit had an ABEND or system error and could not process the request, do not continue job processing |
| Comment | | | | | |
| Return code values placed in field IXGSXGP_ERROR_CODE | | | | | |
| End of Comment | | | | | |
|  |  | .... .... |  | IXGSXGP_NO_ERROR | "X'00" 0 - No error |
| | |1.. | | IXGSXGP_END_OF_DATA | "X'04" 4 - End of data was detected |
| | | 1... | | IXGSXGP_PERM_ERROR | "X'08" 8 - A Permanent error was detected |

IXGSXGP Cross Reference

| Name | Hex Offset | Hex Value |
|------------------------|------------|-----------|
| IXGSXGP | 0 | |
| IXGSXGP_AREA_PTR | 14 | |
| IXGSXGP_BUFF_LEN | 18 | |
| IXGSXGP_CURRENT_LENGTH | 34 | 34 |
| IXGSXGP_DEB_PTR | C | |
| IXGSXGP_DSAB_PTR | 10 | |
| IXGSXGP_END | 34 | |
| IXGSXGP_END_OF_DATA | 34 | 4 |
| IXGSXGP_ERROR_CODE | 29 | |
| IXGSXGP_ID | 0 | |

| Name | Hex Offset | Hex Value |
|------------------------|------------|-----------|
| IXGSXGP_IN_RSVD1 | 9 | |
| IXGSXGP_IN_RSVD2 | 20 | |
| IXGSXGP_LATEST_VERSION | 34 | 1 |
| IXGSXGP_LENGTH | A | |
| IXGSXGP_LOGICAL_ERROR | 34 | 8 |
| IXGSXGP_NO_ERROR | 34 | 0 |
| IXGSXGP_OK | 34 | 0 |
| IXGSXGP_OUT_RSVD1 | 2A | |
| IXGSXGP_OUT_RSVD2 | 2C | |

IXGSXGP Cross Reference

| Name | Hex Offset | Hex Value |
|------------------------|---------------|--------------|
| IXGSXGP_PERM_ERROR | 34 | 8 |
| IXGSXGP_RECORD_LEN_PTR | 1C | |
| IXGSXGP_RETURN_CODE | 28 | |
| IXGSXGP_START | 0 | |
| IXGSXGP_SYSTEM_ERROR | 34 | 18 |
| IXGSXGP_VERSION | 8 | |
| IXGSXGP_1ST_VERSION | 34 | 1 |

IXGSXMSP Programming Interface information

| | | |
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| | Programming Interface information | |
| | <u>IXGSXMSP</u> | |
| | End of Programming Interface information | |

IXGSXMSP Heading Information

Common Name: LOGR subsystem data set interface exit message area mapping
Macro ID: IXGSXMSP
DSECT Name: IXGSXMSP
Owning Component: System Logger (SCLOG)
Eye-Catcher ID: None
Storage Attributes: Subpool: 230 only on Converter SSI call 236 or 237 on other SSI calls (not fetch protected)
 Key: 1
 Residency: ANY
Size: Maximum size is 122 bytes
 Frequency: 1 per message request of a LOGR subsystem data set - DD SUBSYS=(LOGR,...) event
Created by: LOGR subsystem data set interface routine
Pointed to by: IXGSXCNP_MSG_PTR field in the IXGSXCNP data area, IXGSXAP_MSG_PTR field in the IXGSXAP data area
Serialization: None
Function: The IXGSXMSP DSECT maps the message area used on the log stream subsystem data set interface exit on the Converter and Allocaton calls.

IXGSXMSP Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|----------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | IXGSXMSP | , IXGSXMSP data area mapping |
| 0 | (0) | SIGNED | 2 | XMSP_MSG_LEN | Length of message text - does not include this field as part of the length. |
| 2 | (2) | CHARACTER | 1 | XMSP_MSG_TEXT (0) | Message text area - size is determined by value in XMSP_MSG_LEN |

IXGSXOCP Programming Interface information

Programming Interface information

IXGSXOCP

End of Programming Interface information

IXGSXOCP Heading Information

Common Name: LOGR subsystem data set interface exit OPEN/CLOSE specific parameter list
Macro ID: IXGSXOCP
DSECT Name: IXGSXOCP
Owning Component: System Logger (SCLOG)
Eye-Catcher ID: 'IXGSXOCP'
 Offset: 0
 Length: 8
Storage Attributes: Subpool: 236 or 237 (not fetch protected)
 Key: 1
 Residency: ANY
Size: 48 bytes ('30'X)
 Frequency: 1 per open or close request of a LOGR subsystem data set - DD SUBSYS=(LOGR,...)
Created by: LOGR subsystem data set interface routine
Pointed to by: IXGSXCMP_SPECIFIC_PTR field in the IXGSXCMP data area
Serialization: None
Function: Open/close specific LOGR subsystem data set interface exit parameter list.

IXGSXOCP Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|------------------------------|------|------------|-----|-----------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | IXGSXOCP | , IXGSXOCP data area mapping |
| 0 | (0) | SIGNED | 4 | IXGSXOCP_START (0) | |
| 0 | (0) | CHARACTER | 8 | IXGSXOCP_ID | Ensure word alignment |
| 8 | (8) | BITSTRING | 1 | IXGSXOCP_VERSION | Eye catcher 'IXGSXOCP' |
| 9 | (9) | BITSTRING | 1 | IXGSXOCP_RSVD1 | Version number |
| 10 | (A) | BITSTRING | 2 | IXGSXOCP_LENGTH | Reserved for IBM |
| 12 | (C) | ADDRESS | 4 | IXGSXOCP_JFCB_PTR | Length of IXGSXOCP |
| 16 | (10) | ADDRESS | 4 | IXGSXOCP_DEB_PTR | Pointer to a copy of the JFCB for this DD |
| 20 | (14) | ADDRESS | 4 | IXGSXOCP_DSAB_PTR | Pointer to the DEB for this DD |
| 24 | (18) | BITSTRING | 1 | IXGSXOCP_USER_KEY | Pointer to the DSAB for this DD |
| 25 | (19) | CHARACTER | 3 | IXGSXOCP_RSVD2 | User's key (hi-order 4 bits), requestor of OPEN |
| 28 | (1C) | CHARACTER | 8 | IXGSXOCP_DDNAME | Reserved for IBM |
| | | | | | DD name with SUBSYS=LOGR |
| Comment | | | | | |
| Start of input/output fields | | | | | |
| End of Comment | | | | | |
| 36 | (24) | CHARACTER | 8 | IXGSXOCP_IOEXIT_NAME | Name of exit to be invoked on GET requests |
| 44 | (2C) | CHARACTER | 4 | IXGSXOCP_OUT_RSVD1 | |
| 48 | (30) | SIGNED | 4 | IXGSXOCP_END (0) | Reserved for IBM |
| | | | | | End of mapping |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|------------------------------|------|------------|-----|-------------------------|--|
| Dec | Hex | | | | |
| | | | | Comment | |
| Current Length and Id values | | | | | |
| | | | | End of Comment | |
| 48 | (30) | X'30' | 0 | IXGSXOCP_CURRENT_LENGTH | "*-IXGSXOCP" Assembled length of mapping |
| | |1 | | IXGSXOCP_LATEST_VERSION | "X'01" Latest version of mapping |
| | |1 | | IXGSXOCP_1ST_VERSION | "X'01" First version of mapping |

IXGSXOCP Cross Reference

| Name | Hex Offset | Hex Value |
|-------------------------|------------|-----------|
| IXGSXOCP | 0 | |
| IXGSXOCP_CURRENT_LENGTH | 30 | 30 |
| IXGSXOCP_DDNAME | 1C | |
| IXGSXOCP_DEB_PTR | 10 | |
| IXGSXOCP_DSAB_PTR | 14 | |
| IXGSXOCP_END | 30 | |
| IXGSXOCP_ID | 0 | |
| IXGSXOCP_IOEXIT_NAME | 24 | |
| IXGSXOCP_JFCB_PTR | C | |
| IXGSXOCP_LATEST_VERSION | 30 | 1 |
| IXGSXOCP_LENGTH | A | |
| IXGSXOCP_OUT_RSVD1 | 2C | |
| IXGSXOCP_RSVD1 | 9 | |
| IXGSXOCP_RSVD2 | 19 | |
| IXGSXOCP_START | 0 | |
| IXGSXOCP_USER_KEY | 18 | |
| IXGSXOCP_VERSION | 8 | |
| IXGSXOCP_1ST_VERSION | 30 | 1 |

IXGSXTXT Programming Interface information

Programming Interface information

IXGSXTXT

End of Programming Interface information

IXGSXTXT Heading Information

Common Name: LOGR subsystem data set interface exit SUBSYS= specification mapping
Macro ID: IXGSXTXT
DSECT Name: IXGSXTXT and IXGSXTXT_PAIR
Owning Component: System Logger (SCLOG)
Eye-Catcher ID: None
Storage Attributes: Subpool: 230 only on Converter SSI call 236 or 237 on other SSI calls (not fetch protected)
 Key: 1
 Residency: ANY
Size: Based on the SUBSYS= specification
 Frequency: 1 per LOGR subsystem data set, DD SUBSYS=(LOGR,...), for each subsystem data set service event
Created by: LOGR subsystem data set interface routine
Pointed to by: IXGSXTXT:
 IXGSXCMP_SUBSYS_PTR field in the IXGSXCMP data area
 IXGSXTXT_PAIR:
 IXGSXCMP_SUBSYS_OPTION2 field in the IXGSXCMP data area
Serialization: None
Function: The IXGSXTXT DSECT maps the parameters on the SUBSYS= specification of a DD statement or Dynaloc text unit.
 This mapping is valid for all the log stream subsystem data set interface exit calls.

IXGSXTXT Map

| Offsets | | | | | |
|---------|-----|------------|-----|---------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | IXGSXTXT | , IXGSXTXT data area mapping |
| 0 | (0) | SIGNED | 2 | IXGSXTXT_PARM_NUM | |
| | | | | | Number of length/data pairs |
| 2 | (2) | BITSTRING | 1 | IXGSXTXT_PARM_LEN | Length of parameter data for 1st position in this string |
| 3 | (3) | CHARACTER | 1 | IXGSXTXT_PARM_VALUE | |
| | | | | (0) | Value of parameter data for 1st position in this string |

| Offsets | | | | | |
|---------|-----|------------|-----|----------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | IXGSXTXT_PAIR | , Individual length/data pair |
| 0 | (0) | BITSTRING | 1 | IXGSXTXT_LEN | |
| 1 | (1) | CHARACTER | 1 | IXGSXTXT_VALUE | Length of parameter data for next position in this string |
| | | | | (0) | |
| | | | | | Value of parameter data for next position in this string |

IXGSXUP Programming Interface information

Programming Interface information

IXGSXUP

End of Programming Interface information

IXGSXUP Heading Information

Common Name: LOGR subsystem data set interface exit unallocation specific parameter list
Macro ID: IXGSXUP
DSECT Name: IXGSXUP
Owning Component: System Logger (SCLOG)
Eye-Catcher ID: 'IXGSXUP '
 Offset: 0
 Length: 8
Storage Attributes: Subpool: 236 or 237 (not fetch protected)
 Key: 1
 Residency: ANY
Size: 36 bytes ('24'X)
 Frequency: 1 per unallocation request of a LOGR subsystem data set - DD SUBSYS=(LOGR,...)
Created by: LOGR subsystem data set interface routine
Pointed to by: IXGSXCMP_SPECIFIC_PTR field in the IXGSXCMP data area
Serialization: None
Function: Unallocation specific LOGR subsystem data set interface exit parameter list.

IXGSXUP Map

| Offsets | | | | | |
|---------|------|------------|-----|-----------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | IXGSXUP | , IXGSXUP data area mapping |
| 0 | (0) | SIGNED | 4 | IXGSXUP_START (0) | |
| | | | | | Ensure word alignment |
| 0 | (0) | CHARACTER | 8 | IXGSXUP_ID | Eye catcher 'IXGSXUP ' |
| 8 | (8) | BITSTRING | 1 | IXGSXUP_VERSION | |
| | | | | | Version number |
| 9 | (9) | BITSTRING | 1 | IXGSXUP_FLAG | Flags |
| | | 1... | | IXGSXUP_STEP_UNALLOC | |
| | | | | | "X'80" Job step unallocation is in progress |
| | | .1.. | | IXGSXUP_ALLOC_CLEANUP | |
| | | | | | "X'40" This Unallocation is part of an allocation cleanup |
| 10 | (A) | BITSTRING | 2 | IXGSXUP_LENGTH | |
| | | | | | Length of IXGSXUP |
| 12 | (C) | CHARACTER | 8 | IXGSXUP_DDNAME | |
| | | | | | Name of DD or blanks if the name was not available |
| 20 | (14) | ADDRESS | 4 | IXGSXUP_JFCB_PTR | |
| | | | | | Pointer to a copy of the JFCB for this DD |
| 24 | (18) | ADDRESS | 4 | IXGSXUP_JFCBE_PTR | |
| | | | | | Pointer to the 1st JFCBE for the JFCB or zero if no JFCBE |
| 28 | (1C) | CHARACTER | 8 | IXGSXUP_RSVD2 | |
| | | | | | Reserved for IBM |
| 36 | (24) | SIGNED | 4 | IXGSXUP_END (0) | End of mapping |

Comment

Current Length and Id values

End of Comment

| | | | | | |
|----|------|-----------|---|------------------------|--|
| 36 | (24) | X'24' | 0 | IXGSXUP_CURRENT_LENGTH | **IXGSXUP" Assembled length of mapping |
| | |1 | | IXGSXUP_LATEST_VERSION | "X'01" Latest version of mapping |
| | |1 | | IXGSXUP_1ST_VERSION | "X'01" First version of mapping |

IXGSXUP Cross Reference

| Name | Hex Offset | Hex Value |
|------------------------|-----------------------|----------------------|
| IXGSXUP | 0 | |
| IXGSXUP_ALLOC_CLEANUP | 9 | 40 |
| IXGSXUP_CURRENT_LENGTH | 24 | 24 |
| IXGSXUP_DDNAME | C | |
| IXGSXUP_END | 24 | |
| IXGSXUP_FLAG | 9 | |
| IXGSXUP_ID | 0 | |
| IXGSXUP_JFCB_PTR | 14 | |
| IXGSXUP_JFCBE_PTR | 18 | |
| IXGSXUP_LATEST_VERSION | 24 | 1 |
| IXGSXUP_LENGTH | A | |
| IXGSXUP_RSVD2 | 1C | |
| IXGSXUP_START | 0 | |
| IXGSXUP_STEP_UNALLOC | 9 | 80 |
| IXGSXUP_VERSION | 8 | |
| IXGSXUP_1ST_VERSION | 24 | 1 |

IXLYAMDA Programming Interface information

Programming Interface information

IXLYAMDA

End of Programming Interface information

IXLYAMDA Heading Information

Common Name: Accounting and Measurement Data Area
Macro ID: IXLYAMDA
DSECT Name: IXLYAMDAREA IXLYAMDSCF IXLYAMDSCF1 IXLYAMDSLL IXLYAMDSLL1
 IXLYAMDSCF1 IXLYAMDSCF1 IXLYAMDSTR1 IXLYAMDSTR11 IXLYAMDSTRC
 IXLYAMDSTRC1 IXLYAMDSCFMI IXLYAMDSCFMINFO IXLYAMDSCFRF
 @LAA IXLYAMDSCSC IXLYAMDSCSC1 IXLYAMDSCOC IXLYAMDSCOCSTATS
 IXLYAMDSC IXLYAMDSC1 IXLYAMDHD IXLYAMDSSCC
 @L5A
Owning Component: Cross System Extended Services (SCIXL)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: User-supplied
 Key: User-supplied
 Residency: User-supplied
Size: Variable
 IXLYAMDSSCC -- X'0238' bytes
 IXLYAMDSLL1 -- X'00A4' bytes
 IXLYAMDSCF1 -- X'0040' bytes
 IXLYAMDSCSC1 -- X'00C0' bytes
 IXLYAMDAREA -- X'0014' bytes
 IXLYAMDHD -- X'000C' bytes
 IXLYAMDSCF -- X'0130' bytes
 IXLYAMDSCF1 -- X'01B0' bytes
 IXLYAMDSLL -- X'0024' bytes
 IXLYAMDSCF -- X'0024' bytes
 IXLYAMDSCFMI -- X'0010' bytes
 IXLYAMDSCFMINFO -- X'0044' bytes
 IXLYAMDSCFRF -- X'0100' bytes
 IXLYAMDSTR1 -- X'0108' bytes
 IXLYAMDSTR11 -- X'0188' bytes
 IXLYAMDSTRC -- X'00F4' bytes
 IXLYAMDSTRC1 -- X'0174' bytes
 IXLYAMDSCSC -- X'0078' bytes
 IXLYAMDSCOC -- X'0010' bytes
 IXLYAMDSCOCSTATS -- X'0004' bytes
 IXLYAMDSC -- X'0044' bytes
 IXLYAMDSC1 -- X'0080' bytes
 See declares
Created by: IXLA1MG
Pointed to by: DATAAREA_ADDR field in MG parameter list
Serialization: None required
Function: Maps facility, structure, and subchannel accounting and measurement data returned by the LFSS Measurement Gatherer Service (IXLMG).

IXLYAMDA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|--------------------|--------------------------------------|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | IXLYAMDAREA | Data area returned to caller |
| 0 | (0) | SIGNED | 4 | IXLYAMDAREA_LENGTH | Length of IXLYAMDAREA header mapping |
| 4 | (4) | ADDRESS | 4 | IXLYAMDAREA_CFENT@ | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|---------------------|---|
| Dec | Hex | | | | |
| 8 | (8) | SIGNED | 4 | IXLYAMDAREA_TLEN | Address of first CF entry. A value of zero means that no CF entries were provided Total length of output data area needed to contain all the requested information. This length includes the area for the records that WERE returned on this call. |
| 12 | (C) | SIGNED | 4 | IXLYAMDAREA_#ENT | Total number of entries of all kinds (not including the header) |
| 16 | (10) | SIGNED | 1 | IXLYAMDAREA_VERSION | Version number - Maximum CFLEVEL supported by MVS on system where IXLMG was invoked. Can be used to determine if specific fields have valid information. See notes in prolog for more information |
| 17 | (11) | CHARACTER | 3 | | Unused |
| 17 | (11) | X'14' | 0 | IXLYAMDAREA_LEN | **IXLYAMDAREA" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | IXLYAMDHD | Common header mapping for IXLYAMDA entries |
| 0 | (0) | BITSTRING | 1 | IXLYAMDHD_TYPE | Type of entry |
| 1 | (1) | CHARACTER | 3 | | Unused |
| 4 | (4) | SIGNED | 4 | IXLYAMDHD_LENGTH | Length of entry |
| 8 | (8) | ADDRESS | 4 | IXLYAMDHD_NEXT | Address of next entry. |

Comment

Entry Types

End of Comment

| | | | | | |
|-----|-----|-------|---|-------------------|----------------------------|
| ... | 1 | .... |  | IXLYAMDA_TYPECF | "X'10" Type for CF block |
| ... | 1 | ...1 | | IXLYAMDA_TYPEPLL | "X'11" Type for PLL block |
| ... | 1 | ..1. | | IXLYAMDA_TYPESLC | "X'12" Type for SLC block |
| ... | 1 | ..11 | | IXLYAMDA_TYPECFMI | "X'13" Type for CFMI block |
| ... | 1 | .1.. | | IXLYAMDA_TYPECFRF | "X'14" Type for CFRF block |
| ... | 1 | ...1 | | IXLYAMDA_TYPESTRL | "X'21" Type for STRL block |
| ... | 1 | ..1. | | IXLYAMDA_TYPESTRC | "X'22" Type for STRC block |
| ... | 1 | ..11 | | IXLYAMDA_TYPESCSC | "X'23" Type for SCSC block |
| ... | 1 | .1.. | | IXLYAMDA_TYPESCOC | "X'24" Type for SCOC block |
| ... | 1 | ..1.1 | | IXLYAMDA_TYPESSCC | "X'25" Type for SSCC block |
| ... | 1 | .... |  | IXLYAMDA_TYPESC | "X'30" Type for SC block |
| 8 | (8) | X'C' | 0 | IXLYAMDHD_LEN | **IXLYAMDHD" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|------------|------------------------------|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | IXLYAMDCF | Coupling Facility (CF) Entry |

IXLYAMDA Map

| Offsets | | | | | |
|-----------------------------------|------|------------|-----|---------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | BITSTRING | 1 | IXLYAMDCF_TYPE | Indication of type of data X'10' indicates CF entry |
| 1 | (1) | CHARACTER | 3 | | Unused |
| 4 | (4) | SIGNED | 4 | IXLYAMDCF_LENGTH | Length of IXLYAMDCF entry mapping |
| 8 | (8) | ADDRESS | 4 | IXLYAMDCF_CFNEXT | Address of next CF entry. A value of 0 indicates last entry. |
| 12 | (C) | ADDRESS | 4 | IXLYAMDCF_SL@ | Address of first CF structure limits entry. A value of 0 indicates last entry. |
| 16 | (10) | ADDRESS | 4 | IXLYAMDCF_STR@ | Address of first STR record for this CF. A value of zero means that no STR records were provided for this CF. |
| 20 | (14) | ADDRESS | 4 | IXLYAMDCF_SC@ | Address of first subchannel entry for this CF. A value of zero means that no SC records were provided for this CF |
| 24 | (18) | ADDRESS | 4 | IXLYAMDCF_MI@ | Address of the measurement information entry for this CF. a value of zero means that the MI record was not provided for this CF |
| Comment | | | | | |
| Facility Entry Configuration Data | | | | | |
| End of Comment | | | | | |
| 28 | (1C) | SIGNED | 4 | IXLYAMDCF_CFID | Facility ID number |
| 32 | (20) | CHARACTER | 8 | IXLYAMDCF_CFNAME | Facility Name |
| 40 | (28) | CHARACTER | 32 | IXLYAMDCF_ND | Hardware Node Descriptor for the facility. Mapped by IXLYNDE. |
| 72 | (48) | CHARACTER | 2 | | Unused |
| 74 | (4A) | SIGNED | 2 | IXLYAMDCF_SIDMAX | Maximum SID value |
| 76 | (4C) | BITSTRING | 1 | IXLYAMDCF_FLAGS | Flags |
| | | 1... | | IXLYAMDCF_CONNECTED | "X'80" Connected = Managed + Available, which indicates operations can be allowed against the facility. If this bit is off the facility control information returned will be from the last time the facility was connected and may be downlevel. |
| | | .1.. | | IXLYAMDCF_MANAGED | "X'40" The facility is in the XCF Policy and XCF wishes to use this facility |
| | | ..1. | | IXLYAMDCF_AVAILABLE | "X'20" This system has physical paths connected to the facility |
| | | ...1 | | IXLYAMDCF_VOLATILE | "X'10" This facility's storage is volatile when this bit = 1 nonvolatile when this bit = 0 |
| 77 | (4D) | CHARACTER | 3 | | Unused |
| 80 | (50) | CHARACTER | 8 | IXLYAMDCF_PATHMASKS | Pathing masks currently in use |
| 80 | (50) | BITSTRING | 1 | IXLYAMDCF_PHYSPM | Physical path mask - paths which have a physical connection to the facility |
| 81 | (51) | BITSTRING | 1 | IXLYAMDCF_VARYPM | VARY path mask - paths which have a logical connection to the facility |
| 82 | (52) | BITSTRING | 1 | IXLYAMDCF_XCFPM | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---|------|------------|-----|------------------------------|--|
| Dec | Hex | | | | |
| 83 | (53) | BITSTRING | 1 | IXLYAMDCF_COMPPM | XCF path mask - paths connected to the facility in the active policy |
| 84 | (54) | CHARACTER | 1 | IXLYAMDCF_INVALID | Composite path mask = PHYSPM + VARYPM + XCFPM |
| 85 | (55) | BITSTRING | 1 | | Unused |
| 86 | (56) | BITSTRING | 1 | | Invalid paths mask - paths not connected to correct facility |
| 87 | (57) | CHARACTER | 1 | IXLYAMDCF_SEQUENCE | NotValidated paths mask -- paths not connected |
| 88 | (58) | SIGNED | 4 | | Unused |
| 92 | (5C) | BITSTRING | 2 | IXLYAMDCF_CUID | Sequence number. This sequence number is changed whenever a new "instance" of this entity comes into use |
| 94 | (5E) | CHARACTER | 2 | IXLYAMDCF_HWINFORMATION | Control unit ID |
| 96 | (60) | CHARACTER | 64 | | Unused |
| 160 | (A0) | CHARACTER | 16 | | Facility Hardware information |
| | | | | | Unused |
| Comment | | | | | |
| Facility Entry Accounting and Measurement Data | | | | | |
| End of Comment | | | | | |
| 176 | (B0) | SIGNED | 4 | IXLYAMDCF_SUBCH_CONTENTION | Count of times a free subchannel was not available for synchronous immediate operations |
| 180 | (B4) | CHARACTER | 8 | IXLYAMDCF_CONTENTIONTIME | Summed contention time for waiting for subchannels to become free (u-sec) for synchronous immediate operations |
| 188 | (BC) | CHARACTER | 8 | IXLYAMDCF_CONTENTIONTIMESQR | Summed contention time for waiting for subchannels to become free (u-sec squared) for synchronous immediate operations |
| 196 | (C4) | SIGNED | 4 | IXLYAMDCF_SUBCH_ALLOCATED | Count of number of subchannels that this facility has been allocated |
| 200 | (C8) | SIGNED | 4 | IXLYAMDCF_SUBCH_INUSE | Count of number of subchannels available for use |
| 204 | (CC) | SIGNED | 4 | IXLYAMDCF_SUBCH_MAXLIMIT | Count of total number of subchannels that could be used for operations if available |
| 208 | (D0) | SIGNED | 4 | IXLYAMDCF_STRUCTURE_COUNT | Count of number of structures in use by connectors from this system |
| 212 | (D4) | CHARACTER | 4 | IXLYAMDCF_FAILEDOPSTIMECOUNT | Unused |
| 216 | (D8) | SIGNED | 4 | | Count of the number of summed times -- for unsuccessful operations |
| 220 | (DC) | CHARACTER | 8 | IXLYAMDCF_FAILEDOPSUMTIME | Summed service time of unsuccessful operations (u-sec) |
| 228 | (E4) | CHARACTER | 8 | IXLYAMDCF_FAILEDOPSUMTIMESQR | Square of the summed service time of unsuccessful operations (u-sec squared) |
| 236 | (EC) | CHARACTER | 16 | | Unused |
| Comment | | | | | |
| Facility Entry Control Information | | | | | |
| End of Comment | | | | | |

IXLYAMDA Map

| Offsets | | | | | |
|---------|-------|------------|-----|----------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 252 | (FC) | SIGNED | 4 | IXLYAMDCF_TS | Total facility space in 4K blocks. Facility space is made up of free space, dump space and structure space |
| 256 | (100) | SIGNED | 4 | IXLYAMDCF_FS | Total Free space in 4K blocks. Free Space = Free control space + free non-control space |
| 260 | (104) | SIGNED | 4 | IXLYAMDCF_TCS | Total Control space in 4K blocks. Control space + non- control space = total space |
| 264 | (108) | SIGNED | 4 | IXLYAMDCF_FCS | Total Free control space in 4K blocks |
| 268 | (10C) | CHARACTER | 16 | IXLYAMDCF_GDC (0) | Global dumping controls |
| 268 | (10C) | SIGNED | 4 | IXLYAMDCF_TDS | Total Dumping Space in 4K blocks. If TDS is lower than the MRDS then the dump space is not large enough to contain the largest structure that was dumped. |
| 272 | (110) | SIGNED | 4 | IXLYAMDCF_FDS | Free Dumping Space in 4K blocks. If FDS is smaller than the MRDS then there is not enough available dump space to contain the largest structure that was dumped. |
| 276 | (114) | SIGNED | 4 | IXLYAMDCF_ADTC | Associated dump table count. If this count is frequently more than one then multiple structures are being dumped at the same time |
| 280 | (118) | SIGNED | 4 | IXLYAMDCF_MRDS | Maximum Requested Dumping Space in 4K blocks |
| 284 | (11C) | SIGNED | 1 | IXLYAMDCF_MDX | Largest Data Element size, where size in bytes is 256*(2**MDX) |
| 285 | (11D) | CHARACTER | 1 | IXLYAMDCF_STGI | Storage increment in 4K blocks |
| 286 | (11E) | SIGNED | 2 | | |
| 288 | (120) | SIGNED | 4 | IXLYAMDCF_CFLEVEL | Coupling facility architected function level |
| 292 | (124) | CHARACTER | 12 | IXLYAMDCF_LEN | Unused |
| 292 | (124) | X'130' | 0 | | ** -IXLYAMDCF" |

| Offsets | | | | | |
|---------|-------|------------|-----|-------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | IXLYAMDCF1 | Coupling Facility (CF) Entry, AmdaLevel1 |
| 0 | (0) | CHARACTER | 304 | IXLYAMDCF1_RFADDR | Mapped by IXLYAMDCF |
| 304 | (130) | ADDRESS | 4 | | Address of the first Remote Facility record for this CF. A non-zero value will be returned when HWSTATISTICS=(YESICF) and AMDALEVEL=(1\|higher) are specified and this CF is connected to one or more remote CFs. A value of zero indicates either the data was not requested or there are no remotely connected facilities for this CF. |
| 308 | (134) | CHARACTER | 124 | IXLYAMDCF1_LEN | Reserved |
| 308 | (134) | X'1B0' | 0 | | ** -IXLYAMDCF1" |

| Offsets | | | | | |
|---------|-----|------------|-----|-------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | IXLYAMDSLL | Structure Limits for a List Structure (SLL) Entry |
| 0 | (0) | BITSTRING | 1 | IXLYAMDSLL_TYPE | X'11' -- indicates SLL data for CF |
| 1 | (1) | CHARACTER | 3 | IXLYAMDSLL_LENGTH | Unused |
| 4 | (4) | SIGNED | 4 | | Length of IXLYAMDSLL entry mapping |
| 8 | (8) | ADDRESS | 4 | IXLYAMDSLL_SLNEXT | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---|------|------------|-----|-------------------|---|
| Dec | Hex | | | | |
| | | | | | Address of next limit entry. A value of 0 means last entry for this facility. |
| Comment | | | | | |
| List Structure Limits Entry Structure Limits | | | | | |
| End of Comment | | | | | |
| 12 | (C) | SIGNED | 4 | IXLYAMDSLL_LNL | List Header Number limit |
| 16 | (10) | SIGNED | 1 | IXLYAMDSLL_LTECHL | List lock table entry characteristic limit. The maximum supported size of a lock table entry in bytes is 2**LTECHL. |
| 17 | (11) | SIGNED | 1 | IXLYAMDSLL_UIDL | Userid Limit |
| 18 | (12) | CHARACTER | 2 | | Unused |
| 20 | (14) | CHARACTER | 16 | | Unused |
| 20 | (14) | X'24' | 0 | IXLYAMDSLL_LEN | **-IXLYAMDSLL" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-----------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | IXLYAMDSLL1 | Structure Limits for a List Structure (SLL) Entry, AmdaLevel1 |
| 0 | (0) | CHARACTER | 36 | | Mapped by IXLYAMDSLL |
| 36 | (24) | CHARACTER | 128 | | Reserved |
| 36 | (24) | X'A4' | 0 | IXLYAMDSLL1_LEN | **-IXLYAMDSLL1" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|-------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | IXLYAMDSLC | Structure Limits for Cache Structure (SLC) Entry |
| 0 | (0) | BITSTRING | 1 | IXLYAMDSLC_TYPE | X'12' -- indicates SLC data for CF |
| 1 | (1) | CHARACTER | 3 | | Unused |
| 4 | (4) | SIGNED | 4 | IXLYAMDSLC_LENGTH | Length of IXLYAMDSLC entry mapping |
| 8 | (8) | ADDRESS | 4 | IXLYAMDSLC_SLNEXT | Address of next limit entry. A value of 0 means last entry for this facility. |

| | | | | | |
|--|------|-----------|----|--------------------|------------------------------------|
| Comment | | | | | |
| Cache Structure Limits Entry Structure Limits | | | | | |
| End of Comment | | | | | |
| 12 | (C) | SIGNED | 1 | IXLYAMDSLC_LCIDLMT | Cache local cache identifier limit |
| 13 | (D) | CHARACTER | 2 | | reserved |
| 15 | (F) | SIGNED | 1 | IXLYAMDSLC_SCLMT | Cache storage class limit |
| 16 | (10) | SIGNED | 2 | IXLYAMDSLC_CCLMT | Cache cast-out class limit |
| 18 | (12) | CHARACTER | 18 | | Unused |
| 18 | (12) | X'24' | 0 | IXLYAMDSLC_LEN | **-IXLYAMDSLC" |

IXLYAMDA Map

| Offsets | | | | | |
|---------|------|------------|-----|-----------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | IXLYAMDSLC1 | Structure Limits for a Cache Structure (SLC) Entry, AmdaLevel1 |
| 0 | (0) | CHARACTER | 36 | | Mapped by IXLYAMDSLC |
| 36 | (24) | CHARACTER | 28 | | Reserved |
| 36 | (24) | X'40' | 0 | IXLYAMDSLC1_LEN | **IXLYAMDSLC1" |

| Offsets | | | | | |
|---------|-----|------------|-----|----------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | IXLYAMDCFMI | Coupling Facility Measurement Information (CFMI) Entry |
| 0 | (0) | BITSTRING | 1 | IXLYAMDCFMI_TYPE | X'13' -- indicates CFMI data for CF |
| 1 | (1) | CHARACTER | 3 | | Unused |
| 4 | (4) | SIGNED | 4 | IXLYAMDCFMI_LENGTH | Length of IXLYAMDCFMI entry |
| 8 | (8) | ADDRESS | 4 | IXLYAMDCFMI_INFO@ | Address of the measurement information array. An address of 0 indicates no elements are provided |
| 12 | (C) | SIGNED | 4 | IXLYAMDCFMI_INFOELEM | Number of elements in the array Each element contains the processor number and the measurement block for each valid processor |
| 12 | (C) | X'10' | 0 | IXLYAMDCFMI_LEN | **IXLYAMDCFMI" |

| Offsets | | | | | |
|---------|-----|------------|-----|---------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | IXLYAMDCFMINFO | Facility Measurement Information Element |
| 0 | (0) | SIGNED | 4 | IXLYAMDCFMINFO_PNUM | Processor number for which measurement information is provided |
| 4 | (4) | CHARACTER | 64 | IXLYAMDCFMINFO_PMB (0) | Processor measurement block |
| 4 | (4) | SIGNED | 4 | IXLYAMDCFMINFO_PEXTIME | Processor execution time |
| 8 | (8) | SIGNED | 4 | IXLYAMDCFMINFO_PWTTIME | Processor wait time |
| 12 | (C) | CHARACTER | 56 | | reserved |
| 12 | (C) | X'44' | 0 | IXLYAMDCFMINFO_LEN | **IXLYAMDCFMINFO" |

| Offsets | | | | | |
|---------|-----|------------|-----|--------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | IXLYAMDCFRF | CF Remote Facility Entry |
| 0 | (0) | BITSTRING | 1 | IXLYAMDCFRF_TYPE | X'14' -- indicates remote facility entry. (LEVEL10) |
| 1 | (1) | CHARACTER | 3 | | Unused |
| 4 | (4) | SIGNED | 4 | IXLYAMDCFRF_LENGTH | Length of IXLYAMDCFRF entry mapping. (LEVEL10) |
| 8 | (8) | ADDRESS | 4 | IXLYAMDCFRF_RFNEXT | Address of next remote facility entry. A value of zero indicates this is the last entry for this facility. (LEVEL10) |

Comment

CFRF Remote Facility Data

End of Comment

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|--------------------|---|
| Dec | Hex | | | | |
| 12 | (C) | CHARACTER | 32 | IXLYAMDCFRF_NODE | Hardware node descriptor for the remotely connected CF. Mapped by IXLYNDE. (LEVEL10) |
| 44 | (2C) | CHARACTER | 8 | IXLYAMDCFRF_SYID | System identification value for the remotely connected CF. (LEVEL10) |
| 52 | (34) | CHARACTER | 8 | IXLYAMDCFRF_CFNAME | Coupling facility name for the remotely connected CF, or binary zeroes if the CF's node descriptor does not match any CF that is both (a) defined in the CFRM active policy, and (b) also accessible to the system on which the IXLMG request was made. (LEVEL10) |
| 60 | (3C) | SIGNED | 1 | IXLYAMDCFRF_PGS | Path group size. The number of currently active receiver/peer paths over which signals may be sent from the subject CF to this remote CF. (LEVEL10) |
| 61 | (3D) | CHARACTER | 3 | IXLYAMDCFRF_RFCTOC | Unused |
| 64 | (40) | BITSTRING | 8 | | Remote facility controls time of creation. The time of day (TOD) value at the subject CF when the remote facility controls for this remote CF were created. Note that since coupling facilities do not use the Sysplex Timer for TOD clock synchronization, this RFCTOC value may not be meaningfully compared with RFCTOC values obtained from any other subject CF. For the same reason, RFCTOC values may not be meaningfully compared with TOD clock values obtained on any system in the sysplex. In order to meaningfully compare two sets of remote facility signal counters, obtained for the same subject CF and remote CF at different points in time, the RFCTOC values obtained for the two sets of counters must be identical. (LEVEL10) |
| 72 | (48) | SIGNED | 4 | IXLYAMDCFRF_RTESC | Ready to execute signal counter. The number of ready to execute signals which have been sent from the subject CF to this remote CF since the time at which the remote facility controls were created. (LEVEL10) |
| 76 | (4C) | SIGNED | 4 | IXLYAMDCFRF_RTCSC | Ready to complete signal counter. The number of ready to complete signals which have been sent from the subject CF to this remote CF since the time at which the remote facility controls were created. (LEVEL10) |
| 80 | (50) | SIGNED | 4 | IXLYAMDCFRF_HESC | Halt execution signal counter. The number of halt execution signals which have been sent from the subject CF to this remote CF since the time at which the remote facility controls were created. (LEVEL10) |
| 84 | (54) | SIGNED | 4 | IXLYAMDCFRF_RFSSC | Request for suppression signal counter. The number of request for suppression signals which have been sent from the subject CF to this remote CF since the time at which the remote facility controls were created. (LEVEL10) |
| 88 | (58) | SIGNED | 4 | IXLYAMDCFRF_RFSASC | Request for suppression accepted signal counter. The number of request for suppression accepted signals which have been sent from the subject CF to this remote CF since the time at which the remote facility controls were created. (LEVEL10) |
| 92 | (5C) | SIGNED | 4 | IXLYAMDCFRF_SSTFM | Sum of signal service times. The sum of service times includes service times for all types of requests which have been sent from the subject CF to this remote CF since the time at which the remote facility controls were created, and also includes the service time associated with any redrives of those signals. However, it excludes any delay time associated with these signals (delay time is accounted for separately). (LEVEL10) |

IXLYAMDA Map

| Offsets | | | | | |
|---------|------|------------|-----|-------------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 96 | (60) | CHARACTER | 8 | IXLYAMDCFRF_SSTSM | Sum of squares of signal service times. The sum of squares of service times includes squared service times for all types of requests which have been sent from the subject CF to this remote CF since the time at which the remote facility controls were created, and also includes the squared service time associated with any redrives of those signals. However, it excludes any delay time associated with these signals (delay time is accounted for separately). (LEVEL10) |
| 104 | (68) | SIGNED | 4 | IXLYAMDCFRF_DSC | Delayed signal counter. The number of signals of all types which have experienced a delay in being sent from the subject CF to this remote CF since the time at which the remote facility controls were created. (LEVEL10) |
| 108 | (6C) | SIGNED | 4 | IXLYAMDCFRF_SDTFM | Sum of signal delay times. The sum of delay times includes delay times for all types of requests which have been sent from the subject CF this remote CF since the time at which the remote facility controls were created. (LEVEL10) |
| 112 | (70) | CHARACTER | 8 | IXLYAMDCFRF_SDTSM | Sum of squares of signal times. The sum of squares of delay times includes squared delay times for all types of requests which have been sent from the subject CF to this remote CF since the time at which the remote facility controls were created. (LEVEL10) |
| 120 | (78) | SIGNED | 4 | IXLYAMDCFRF_SRDSC | Signal redrives signal counter. The number of redrives of signals of all types which have been sent from the subject CF to this remote CF since the time at which the remote facility controls were created. (LEVEL10) |
| 124 | (7C) | CHARACTER | 1 | IXLYAMDCFRF_CHPIDTYPES (0) | A chpid type is provided for each active receiver/peer message path in the path group. The number of valid IXLYAMDCFRF_CHPIDTYPE entries returned in each IXLYAMDCFRF is equal to the path group size returned in IXLYAMDCFRF_PGS |
| 124 | (7C) | SIGNED | 1 | IXLYAMDCFRF_CHPIDTYPE | CHPID Type |
| 132 | (84) | CHARACTER | 124 | | Reserved |
| 132 | (84) | X'100' | 0 | IXLYAMDCFRF_LEN | **-IXLYAMDCFRF" |

| Offsets | | | | | |
|---------|-----|------------|-----|---------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | IXLYAMDSTRL | Structure Entry for List Structure (STRL) |
| 0 | (0) | BITSTRING | 1 | IXLYAMDSTRL_TYPE | X'21' -- indicates STR data for CF |
| 1 | (1) | CHARACTER | 3 | | Unused |
| 4 | (4) | SIGNED | 4 | IXLYAMDSTRL_LENGTH | Length of IXLYAMDSTR entry mapping |
| 8 | (8) | ADDRESS | 4 | IXLYAMDSTRL_STRNEXT | Address of next STR entry. A value of 0 means last entry for this facility. |

Comment

LIST Configuration Data

End of Comment

| | | | | | |
|----|-----|--------|---|-----------------|---------------------------|
| 12 | (C) | SIGNED | 1 | IXLYAMDSTRL_TTY | Structure type identifier |
|----|-----|--------|---|-----------------|---------------------------|

| Offsets | | | | | |
|-----------------------|------|------------|-----|-------------------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 13 | (D) | CHARACTER | 1 | IXLYAMDSTRL_TTY_STATUS (0) | |
| | | 1... | | IXLYAMDSTRL_TYPERLIST | "X'80" The List structure is a serialized list |
| | | .1... | | IXLYAMDSTRL_RBLDVALID | "X'40" The structure rebuild status indications reported in the IXLYAMDSTRL_RBLDStatus are valid -- These values will only be valid and reported when information is requested for a particular structure |
| 14 | (E) | SIGNED | 2 | IXLYAMDSTRL_SID | Structure ID |
| 16 | (10) | BITSTRING | 8 | IXLYAMDSTRL_VERSION (0) | Structure version number. Changes when a new physical instance of the structure is allocated (e.g., user- or system-managed rebuild), and there is at least one active connector to observe the allocation. |
| 16 | (10) | BITSTRING | 8 | IXLYAMDSTRL_PHYSICALVERSION | Structure version number. Changes when a new physical instance of the structure is allocated (e.g., user- or system-managed rebuild), and there is at least one active connector to observe the allocation. |
| 24 | (18) | CHARACTER | 16 | IXLYAMDSTRL_STRNAME | Structure name |
| 40 | (28) | BITSTRING | 1 | IXLYAMDSTRL_RBLDSTATUS (0) | Rebuild status flags This information will only be valid if IXLYAMDSTRL_RBLDValid is set. |
| | | 1... | | IXLYAMDSTRL_STRINREBLD | "X'80" ON indicates that the structure is in rebuild |
| | | .1... | | IXLYAMDSTRL_REBLDOLDSTR | "X'40" ON indicates that the structure information pertains to the OLD structure |
| | | ..1. | | IXLYAMDSTRL_REBLDNEWSTR | "X'20" ON indicates that the structure information pertains to the NEW structure |
| | | ...1 | | IXLYAMDSTRL_REBLDDUPLEXSTR | "X'10" ON indicates the structure rebuild is a duplexing rebuild. OFF indicates the structure rebuild is a normal rebuild. This bit only applies when IXLYAMDSTRL_StrInRebld is on. |
| | | 1... | | IXLYAMDSTRL_REBLDMETHODSTR | "X'08" ON indicates the structure rebuild is system managed. OFF indicates the structure rebuild is user managed. This bit only applies when IXLYAMDSTRL_StrInRebld is on. |
| 41 | (29) | CHARACTER | 3 | | |
| Comment | | | | | |
| LIST Measurement Data | | | | | |
| End of Comment | | | | | |
| 44 | (2C) | CHARACTER | 1 | IXLYAMDSTRL_STATUS (0) | Structure status bits |
| | | 1... | | IXLYAMDSTRL_AMVALID | "X'80" The following measurement data is valid |
| | | .1... | | IXLYAMDSTRL_DUMPSERIALHELD | "X'40" Dump serialization is held against this structure - internal operations are failed, - external operations are delayed. Hardware control data will not be available. |
| 45 | (2D) | CHARACTER | 1 | | Unused |

IXLYAMDA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|--|------|------------|-----|--------------------------------|---|
| Dec | Hex | | | | |
| | | | | | Comment |
| Begin fields whose validity is indicated by the IXLYAMDSTRL_AMValid flag | | | | | |
| | | | | | End of Comment |
| 46 | (2E) | SIGNED | 2 | IXLYAMDSTRL_AMDATASEQUENCE | Sequence number associated with this instance of Measurement Data from this system. |
| 48 | (30) | SIGNED | 4 | IXLYAMDSTRL_REQCT | Total requests by structure (this relates to external requests such as IXLLIST macro invocations, NOT to requests sent to the facility). |
| 52 | (34) | SIGNED | 4 | IXLYAMDSTRL_REQCTASYNC | Total asynchronous requests started (LOCK structure only) |
| 56 | (38) | SIGNED | 4 | IXLYAMDSTRL_CONTCT | Total number of requests that encountered contention on a lock table entry (LOCK structure only) |
| 60 | (3C) | SIGNED | 4 | IXLYAMDSTRL_FCONTCT | False contention count = Total number of requests that encountered false contention on a lock table entry (LOCK structure only) |
| 64 | (40) | SIGNED | 4 | IXLYAMDSTRL_HIWORKQUEUECOUNT | Reserved |
| 68 | (44) | SIGNED | 4 | | Current count of the number of operations queued for subchannel contention |
| 72 | (48) | SIGNED | 4 | IXLYAMDSTRL_WORKQUEUECOUNT | Current count of the number of operations queued for subchannel contention |
| 76 | (4C) | SIGNED | 4 | IXLYAMDSTRL_DELAYQUEUECOUNT | Current count of the number of operations delayed for dump serialization and/or a system-managed process (e.g., rebuild) |
| 80 | (50) | SIGNED | 4 | IXLYAMDSTRL_DUMPSERIALRELEASED | Count of the number of times dump serialization was obtained and released for this structure |
| 84 | (54) | SIGNED | 4 | IXLYAMDSTRL_SYNCTIMECOUNT | Count of the number of summed times -- for successful operations. This count represents synchronous operations to the coupling facility. |
| 88 | (58) | CHARACTER | 8 | IXLYAMDSTRL_SYNCSUMTIME | Summed service time (u-sec) |
| 96 | (60) | CHARACTER | 8 | IXLYAMDSTRL_SYNCSUMTIMESQR | Summed service time (u-sec squared) |
| 104 | (68) | SIGNED | 4 | IXLYAMDSTRL_ASYNCIMECOUNT | Count of the number of summed times -- for asynchronous operations. This count represents asynchronous operations to the coupling facility. |
| 108 | (6C) | CHARACTER | 8 | IXLYAMDSTRL_ASYNCSUMTIME | Summed service time (u-sec) |
| 116 | (74) | CHARACTER | 8 | IXLYAMDSTRL_ASYNCSUMTIMESQR | Summed service time squared (u-sec squared) |
| 124 | (7C) | SIGNED | 4 | IXLYAMDSTRL_QUEUEIMECOUNT | Count of the number of summed times -- for operation queue time |
| 128 | (80) | CHARACTER | 8 | IXLYAMDSTRL_QUEUESUMTIME | Summed queue time (u-sec) |
| 136 | (88) | CHARACTER | 8 | IXLYAMDSTRL_QUEUESUMTIMESQR | Summed queue time squared (u-sec squared) |
| 144 | (90) | SIGNED | 4 | IXLYAMDSTRL_DELAYIMECOUNT | Count of the number of summed times -- for operation delay time for dump serialization |
| 148 | (94) | CHARACTER | 8 | IXLYAMDSTRL_DELAYSUMTIME | Summed delay time (u-sec) |

| Offsets | | | | | |
|--|------|------------|-----|------------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 156 | (9C) | CHARACTER | 8 | IXLYAMDSTRL_DELAYSUMTIMESQR | Summed delay time squared (u-sec squared) |
| 164 | (A4) | SIGNED | 4 | IXLYAMDSTRL_SYNCTOASYNCCOUNT | Count of the number of times a synchronous operation could not be performed synchronously and was changed to an asynchronous operation |
| 168 | (A8) | SIGNED | 4 | IXLYAMDSTRL_TOTALHIWORKCOUNT | Total count of the number of operations queued for subchannel contention |
| 172 | (AC) | SIGNED | 4 | IXLYAMDSTRL_TOTALWORKCOUNT | Total count of the number of operations queued for subchannel contention |
| 176 | (B0) | CHARACTER | 4 | | RESERVED |
| Comment | | | | | |
| End fields whose validity is indicated by the IXLYAMDSTRL_AMValid flag LIST Control Structure Information | | | | | |
| End of Comment | | | | | |
| 180 | (B4) | BITSTRING | 1 | IXLYAMDSTRL_DATAFLAGS | |
| | | 1... | | (0) IXLYAMDSTRL_VALID | "X'80" The following list control structure information is valid |
| | | 1... | | IXLYAMDSTRL_DTSVALID | "X'08" Structure dump table size information is valid |
| 181 | (B5) | CHARACTER | 2 | | not used |
| Comment | | | | | |
| Begin fields whose validity is indicated by the IXLYAMDSTRL_Valid flag | | | | | |
| End of Comment | | | | | |
| 183 | (B7) | BITSTRING | 1 | IXLYAMDSTRL_FLAGS2 | |
| | | 1... | | (0) IXLYAMDSTRL_REIPI | Flags "X'80" Reapportionment in progress indicator. 1=structure ALTER to change ratio is in progress (LEVEL1) |
| | | .1.. | | IXLYAMDSTRL_SSCI | "X'40" Structure size change in progress indicator. 1=structure ALTER to change structure size is in progress (LEVEL1) |
| | | ..1. | | IXLYAMDSTRL_MREIPI | "X'20" Monitor Reapportionment change in progress indicator. 1=structure ALTER to change Event Monitor Controls is in progress (LEVEL4) |
| 184 | (B8) | SIGNED | 1 | IXLYAMDSTRL_MDLES | Maximum data list entry size (maximum number of elements per entry) |
| 185 | (B9) | BITSTRING | 1 | IXLYAMDSTRL_STFLAGS | |
| 185 | (B9) | BITSTRING | 1 | IXLYAMDSTRL_ST | |
| | | 1... | | (0) IXLYAMDSTRL_ST_SKI | Structure type values "X'80" Secondary key indicator 0 ==> Secondary keys are not supported. 1 ==> Secondary keys are supported. (CF level >=9) |
| | | .1.. | | IXLYAMDSTRL_ST_PLEIDI | "X'40" Programmable LEID indicator (LEVEL8) |
| | | ..1. | | IXLYAMDSTRL_ST_CI | "X'20" Count indicator. 1= list limit accounting by elements, 0 = list limit accounting by entries |

IXLYAMDA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|--------------------|--|
| Dec | Hex | | | | |
| | | ...1 | | IXLYAMDSTRL_ST_LI | "X'10'" Lock Indicator |
| | | 1... | | IXLYAMDSTRL_ST_DI | "X'08'" Data Indicator |
| | |1.. | | IXLYAMDSTRL_ST_AI | "X'04'" Adjunct indicator |
| | |1. | | IXLYAMDSTRL_ST_NI | "X'02'" Name indicator |
| | |1 | | IXLYAMDSTRL_ST_KI | "X'01'" Key indicator |
| 186 | (BA) | SIGNED | 1 | IXLYAMDSTRL_LTECH | Lock table entry characteristic. The width of a lock table entry in bytes is 2**LTECH |
| 187 | (BB) | SIGNED | 1 | IXLYAMDSTRL_LELX | List element characteristic. The size of a list element in bytes is 256*(2**LELX) |
| 188 | (BC) | SIGNED | 4 | IXLYAMDSTRL_NLE | Lock table entry count |
| 192 | (C0) | SIGNED | 4 | IXLYAMDSTRL_LC | List count - number of list headers in the structure |
| 196 | (C4) | SIGNED | 4 | IXLYAMDSTRL_SS | Structure size in 4k blocks |
| 200 | (C8) | SIGNED | 4 | IXLYAMDSTRL_MSS | Maximum structure size in 4K blocks. |
| 204 | (CC) | SIGNED | 4 | IXLYAMDSTRL_MINSS | Minimum structure size in 4K blocks. The structure may actually be allocated smaller than this, but if so, structure attributes such as entry/element ratio will differ significantly from those which were requested. |
| 208 | (D0) | SIGNED | 4 | IXLYAMDSTRL_MLSELC | Maximum list set element count. This count is only substantially accurate. |
| 212 | (D4) | SIGNED | 4 | IXLYAMDSTRL_LSELC | List set element count (count of list elements currently in use) |
| 216 | (D8) | SIGNED | 4 | IXLYAMDSTRL_NLTEC | Non-zero lock table entry count. This count is only substantially accurate. |
| 220 | (DC) | SIGNED | 4 | IXLYAMDSTRL_MLSEC | Maximum list set entry count. LIST Structure = Total number of entries in the structure. LOCK Structure = Maximum number of record data elements. This count is only substantially accurate. |
| 224 | (E0) | SIGNED | 4 | IXLYAMDSTRL_LSEC | List set entry count. LIST Structure = Number of entries in the structure which are currently in use. LOCK Structure = Number of record entries in the structure which are currently in use. |
| 228 | (E4) | SIGNED | 4 | IXLYAMDSTRL_DTS | Structure dump table size in 4k blocks |
| 232 | (E8) | SIGNED | 4 | IXLYAMDSTRL_MRSS | Marginal structure size. This is the true minimum size with which the structure can be allocated, regardless of ratio considerations. (LEVEL1) |
| 236 | (EC) | SIGNED | 4 | IXLYAMDSTRL_TSS | Target structure size. For a CFLEVEL 0 facility, the target structure size will be equal to the actual structure size. For a CFLEVEL 1 or higher facility, the target structure size will be equal to the target structure size specified on the initial allocate or subsequent expand or contract request. The target size may or may not be equal to the actual size. (LEVEL1) |
| 240 | (F0) | SIGNED | 4 | IXLYAMDSTRL_TMELC | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|----------------------------|---|
| Dec | Hex | | | | |
| 244 | (F4) | SIGNED | 4 | IXLYAMDSTRL_TMEC | Target maximum element count. For a CFLEVEL 0 facility the target maximum element count will be equal to the actual maximum element count. For CFLEVEL 1 or higher facilities, the target maximum element count will reflect the target ratio specified on the initial allocate or subsequent reapportionment request. This may or may not equal the actual maximum element count. (LEVEL1) |
| 248 | (F8) | SIGNED | 4 | IXLYAMDSTRL_PETELR (0) | Target maximum entry count. For a CFLEVEL 0 facility the target maximum entry count will be equal to the actual maximum entry count. For CFLEVEL 1 or higher facilities, the target maximum entry count will reflect the target ratio specified on the initial allocate or subsequent reapportionment request. This may or may not equal the actual maximum entry count. (LEVEL1) |
| 248 | (F8) | SIGNED | 2 | IXLYAMDSTRL_PETELR_ENTRY | Pending entry to element ratio. This field is only applicable to CFLEVEL 1 or higher facilities. (LEVEL1) |
| 250 | (FA) | SIGNED | 2 | IXLYAMDSTRL_PETELR_ELEMENT | Entry ratio portion (LEVEL1) |
| 252 | (FC) | SIGNED | 4 | IXLYAMDSTRL_EMCCNT | Element ratio portion (LEVEL1) |
| 256 | (100) | SIGNED | 4 | IXLYAMDSTRL_MAXEMCCNT | Count of Event Monitor Control (EMC) objects in use by the structure. Applicable only if structure allocated in CFLEVEL 3 or higher facility. |
| 260 | (104) | SIGNED | 4 | IXLYAMDSTRL_TMAXEMCCNT | Maximum number of EMCs for the structure. Applicable only if structure allocated in CFLEVEL 3 or higher facility. |
| | | | | | Target Maximum number of EMCs for the structure. Applicable only if structure allocated in CFLEVEL 3 or higher facility. |

Comment

End fields whose validity is indicated by the
IXLYAMDSTRL_Valid flag

End of Comment

| | | | | | |
|-----|-------|--------|---|-----------------|----------------|
| 260 | (104) | X'108' | 0 | IXLYAMDSTRL_LEN | **IXLYAMDSTRL" |
|-----|-------|--------|---|-----------------|----------------|

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---|-------|------------|-----|------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | IXLYAMDSTRL1 | Structure Entry for a List Structure (STRL), AmdaLevel1 |
| 0 | (0) | CHARACTER | 264 | | Mapped by IXLYAMDSTRL |
| Comment | | | | | |
| Begin fields whose validity is indicated by the IXLYAMDSTRL_Valid flag | | | | | |
| End of Comment | | | | | |
| 264 | (108) | SIGNED | 2 | IXLYAMDSTRL_TEMCSTGPCT | Pending percent of structure storage to be used as EMCs, expressed in hundredths of a percent (ie. range is 0 to 10000) |
| 266 | (10A) | CHARACTER | 2 | | Reserved |
| 268 | (10C) | SIGNED | 4 | IXLYAMDSTRL1_LSCUR | List set cursor (LEVEL8) |
| 272 | (110) | SIGNED | 4 | IXLYAMDSTRL1_SCCVN | Structure copy controls version number (LEVEL8) |

IXLYAMDA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|--|-------|------------|-----|---------------------------------------|--|
| Dec | Hex | | | | |
| Comment | | | | | |
| End fields whose validity is indicated by the IXLYAMDSTRL_Valid flag | | | | | |
| End of Comment | | | | | |
| 276 | (114) | CHARACTER | 36 | | Reserved |
| Comment | | | | | |
| Begin fields whose validity is indicated by the IXLYAMDSTRL_AMValid flag | | | | | |
| End of Comment | | | | | |
| 312 | (138) | SIGNED | 4 | IXLYAMDSTRL1_PEERLINKUNAVAILABLECOUNT | Count of Peer Link Not Available conditions (LEVEL10) |
| 316 | (13C) | SIGNED | 4 | IXLYAMDSTRL1_EXECUTIONSUPPRESSEDCount | Count of Execution Suppressed conditions (LEVEL10) |
| 320 | (140) | SIGNED | 4 | IXLYAMDSTRL1_PEERWAITSCHTIMECOUNT | Count of the number of times a duplexed request was holding a subchannel while waiting for a peer request to be started. (LEVEL10) |
| 324 | (144) | CHARACTER | 8 | IXLYAMDSTRL1_PEERWAITSCHSUMTIME | Summed peer subchannel wait time (u-sec) (LEVEL10) |
| 332 | (14C) | CHARACTER | 8 | IXLYAMDSTRL1_PEERWAITSCHSUMTIMESQR | Summed peer subchannel wait time squared (u-sec squared) (LEVEL10) |
| 340 | (154) | SIGNED | 4 | IXLYAMDSTRL1_PEERWAITRSVTIMECOUNT | Count of the number of times a request is holding a subchannel in reserve while waiting for a peer subchannel to become available to start a duplexed request. (LEVEL10) |
| 344 | (158) | CHARACTER | 8 | IXLYAMDSTRL1_PEERWAITRSVSUMTIME | Summed peer subchannel wait with reserve time (u-sec) (LEVEL10) |
| 352 | (160) | CHARACTER | 8 | IXLYAMDSTRL1_PEERWAITRSVSUMTIMESQR | Summed peer subchannel wait with reserve time squared (u-sec squared) (LEVEL10) |
| 360 | (168) | SIGNED | 4 | IXLYAMDSTRL1_PEERWAITCOMPTIMECOUNT | Count of the number of "waiting for peer completion" times reported. One of the two duplexed operations has completed, but the completed subchannel remains unavailable for use until the peer operation completes. (LEVEL10) |
| 364 | (16C) | CHARACTER | 8 | IXLYAMDSTRL1_PEERWAITCOMPSUMTIME | Summed waiting for peer completion times. (u-sec) (LEVEL10) |
| 372 | (174) | CHARACTER | 8 | IXLYAMDSTRL1_PEERWAITCOMPSUMTIMESQR | Square of the sum of the waiting for peer completion time. (u-sec squared) (LEVEL10) |
| 380 | (17C) | BITSTRING | 8 | IXLYAMDSTRL1_LOGICALVERSION | Logical structure version number. Used in conjunction with the physical version number to identify an instance of a structure. The value of this field is set equal to the physical version number when the structure is initially allocated. It changes when a process that allocates a new instance of the structure (e.g., rebuild) is user-managed, but not when it is system-managed. |
| Comment | | | | | |
| End fields whose validity is indicated by the IXLYAMDSTRL_AMValid flag | | | | | |
| End of Comment | | | | | |
| 388 | (184) | ADDRESS | 4 | IXLYAMDSTRL1_SSCCADDR | |

| Offsets | | | | | |
|---------|-------|------------|-----|------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 388 | (184) | X'188' | 0 | IXLYAMDSTRL1_LEN | Address of the structure copy controls information entry for this structure. A value of zero means that the SSCC record was not provided for this structure because it was not requested, not available, or contained no information. "-IXLYAMDSTRL1" |

| Offsets | | | | | |
|---------|------|------------|-----|---------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | IXLYAMDSTRC | Structure Entry for a Cache Structure (STRC) |
| 0 | (0) | BITSTRING | 1 | IXLYAMDSTRC_TYPE | X'22' -- indicates STR data for CF |
| 1 | (1) | CHARACTER | 3 | | Unused |
| 4 | (4) | SIGNED | 4 | IXLYAMDSTRC_LENGTH | Length of IXLYAMDSTR entry mapping |
| 8 | (8) | ADDRESS | 4 | IXLYAMDSTRC_STRNEXT | Address of next STR entry. A value of 0 means last entry for this facility. |
| 12 | (C) | ADDRESS | 4 | IXLYAMDSTRC_SCSC@ | Address of the SCSC entry. A value of 0 means there is no entry for storage class data |
| 16 | (10) | ADDRESS | 4 | IXLYAMDSTRC_SCOC@ | Address of the SCOC entry. A value of 0 means there is no entry for castout class data |

Comment

CACHE Configuration Data

End of Comment

| | | | | | |
|----|------|-----------|----|------------------------------|--|
| 20 | (14) | SIGNED | 1 | IXLYAMDSTRC_TTY | Structure type identifier |
| 21 | (15) | CHARACTER | 1 | IXLYAMDSTRC_TTY_STATUS | |
| | | .1.. | | (0) IXLYAMDSTRC_RBLDVALID | "X'40" The structure rebuild status indications reported in the IXLYAMDSTRC_RBLDStatus are valid -- These values will only be valid and reported when information is requested for a particular structure |
| 22 | (16) | SIGNED | 2 | IXLYAMDSTRC_SID | Structure ID |
| 24 | (18) | BITSTRING | 8 | IXLYAMDSTRC_VERSION | (0) Structure version number. Changes when a new physical instance of the structure is allocated (e.g., user- or system-managed rebuild), and there is at least one active connector to observe the allocation. |
| 24 | (18) | BITSTRING | 8 | IXLYAMDSTRC_PHYSICALVERSION | Structure version number. Changes when a new physical instance of the structure is allocated (e.g., user- or system-managed rebuild), and there is at least one active connector to observe the allocation. |
| 32 | (20) | CHARACTER | 16 | IXLYAMDSTRC_STRNAME | STR name |
| 48 | (30) | BITSTRING | 1 | IXLYAMDSTRC_RBLDSTATUS | (0) Rebuild status flags This information will only be valid if IXLYAMDSTRC_RBLDValid is set. |
| | | 1... | | IXLYAMDSTRC_STRINREBLD | "X'80" ON indicates that the structure is in rebuild |
| | | .1.. | | IXLYAMDSTRC_REBLDOLDSTR | |

IXLYAMDA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|--|------|------------|-----|--------------------------------|---|
| Dec | Hex | | | | |
| | | ..1. | | IXLYAMDSTRC_REBLDNEWSTR | "X'40" ON indicates that the structure information pertains to the OLD structure |
| | | ...1 | | IXLYAMDSTRC_REBLDDUPLEXSTR | "X'20" ON indicates that the structure information pertains to the NEW structure |
| | | 1... | | IXLYAMDSTRC_REBLDMETHODSTR | "X'10" ON indicates the structure rebuild is a duplexing rebuild. OFF indicates the structure rebuild is a normal rebuild. This bit only applies when IXLYAMDSTRC_StrInRebld is on. |
| | | | | | "X'08" ON indicates the structure rebuild is system managed. OFF indicates the structure rebuild is user managed. This bit only applies when IXLYAMDSTRC_StrInRebld is on. |
| 49 | (31) | CHARACTER | 3 | | |
| Comment | | | | | |
| CACHE Measurement Data | | | | | |
| End of Comment | | | | | |
| 52 | (34) | CHARACTER | 1 | IXLYAMDSTRC_STATUS (0) | Structure status bits |
| | | 1... | | IXLYAMDSTRC_AMVALID | "X'80" The following measurement data is valid |
| | | .1.. | | IXLYAMDSTRC_DUMPSERIALHELD | "X'40" Dump serialization is held against this structure - internal operations are failed - external operations are delayed. Hardware control data will not be available. |
| 53 | (35) | CHARACTER | 1 | | Unused |
| Comment | | | | | |
| Begin fields whose validity is indicated by the IXLYAMDSTRC_AMValid flag | | | | | |
| End of Comment | | | | | |
| 54 | (36) | SIGNED | 2 | IXLYAMDSTRC_AMDATASEQUENCE | Sequence number associated with this instance of Measurement Data from this system. |
| 56 | (38) | SIGNED | 4 | IXLYAMDSTRC_REQCT | Total requests. This relates to external requests such as IXLCACHE macro invocations, not operations to the coupling facility. |
| 60 | (3C) | SIGNED | 4 | IXLYAMDSTRC_REQCTASYNC | Total asynchronous requests started (unused, always zero) |
| 64 | (40) | SIGNED | 4 | IXLYAMDSTRC_HIWORKQUEUECOUNT | Current count of the number of operations queued for subchannel contention |
| 68 | (44) | SIGNED | 4 | IXLYAMDSTRC_WORKQUEUECOUNT | Current count of the number of operations queued for subchannel contention |
| 72 | (48) | SIGNED | 4 | IXLYAMDSTRC_DELAYQUEUECOUNT | Current count of the number of operations delayed for dump serialization and/or a system-managed process (e.g., rebuild) |
| 76 | (4C) | SIGNED | 4 | IXLYAMDSTRC_DUMPSERIALRELEASED | Count of the number times dump serialization was obtained and released for this structure |
| 80 | (50) | SIGNED | 4 | IXLYAMDSTRC_SYNCTIMECOUNT | Count of the number of summed times -- for successful synchronous operations to the facility |
| 84 | (54) | CHARACTER | 8 | IXLYAMDSTRC_SYNCSUMTIME | Summed service time (u-sec) |
| 92 | (5C) | CHARACTER | 8 | IXLYAMDSTRC_SYNCSUMTIMESQR | |

| Offsets | | Type/Value | Len | Name (Dim) | Description | |
|---|------|------------|-----|------------------------------|--|--|
| Dec | Hex | | | | | |
| 100 | (64) | SIGNED | 4 | IXLYAMDSTRC_ASYNCTIMECOUNT | Summed service time squared (u-sec squared) Count of the number of summed times -- for successful asynchronous operations to the facility | |
| 104 | (68) | CHARACTER | 8 | IXLYAMDSTRC_ASYNCSUMTIME | Summed service time (u-sec) | |
| 112 | (70) | CHARACTER | 8 | IXLYAMDSTRC_ASYNCSUMTIMESQR | Summed service time squared (u-sec squared) | |
| 120 | (78) | SIGNED | 4 | IXLYAMDSTRC_QUEUEETIMECOUNT | Count of the number of summed times -- for operation queue time | |
| 124 | (7C) | CHARACTER | 8 | IXLYAMDSTRC_QUEUEESUMTIME | Summed queue time (u-sec) | |
| 132 | (84) | CHARACTER | 8 | IXLYAMDSTRC_QUEUEESUMTIMESQR | Summed queue time squared (u-sec squared) | |
| 140 | (8C) | SIGNED | 4 | IXLYAMDSTRC_DELAYTIMECOUNT | Count of the number of summed times -- for operation delay time for dump serialization | |
| 144 | (90) | CHARACTER | 8 | IXLYAMDSTRC_DELAYSUMTIME | Summed delay time (u-sec) | |
| 152 | (98) | CHARACTER | 8 | IXLYAMDSTRC_DELAYSUMTIMESQR | Summed delay time squared (u-sec squared) | |
| 160 | (A0) | SIGNED | 4 | IXLYAMDSTRC_SYNCTOASYNCCOUNT | Count of the number times a synchronous operation could not be performed synchronously and was changed to an asynchronous operation | |
| 164 | (A4) | SIGNED | 4 | IXLYAMDSTRC_TOTALHIWORKCOUNT | Total count of the number of operations queued for subchannel contention | |
| 168 | (A8) | SIGNED | 4 | IXLYAMDSTRC_TOTALWORKCOUNT | Total count of the number of operations queued for subchannel contention | |
| 172 | (AC) | CHARACTER | 4 | | RESERVED | |
| Comment | | | | | | |
| End fields whose validity is indicated by the IXLYAMDSTRC_AMValid flag Control Structure Information | | | | | | |
| End of Comment | | | | | | |
| 176 | (B0) | BITSTRING | 1 | IXLYAMDSTRC_DATAFLAGS | "X'80'" The following cache control structure information is valid | |
| | | 1... | | IXLYAMDSTRC_VALID | | |
| | | 1... | | IXLYAMDSTRC_DTSVALID | | |
| 177 | (B1) | CHARACTER | 2 | | "X'08'" Structure dump table size information is valid reserved | |
| Comment | | | | | | |
| Begin fields whose validity is indicated by the IXLYAMDSTRC_Valid flag | | | | | | |
| End of Comment | | | | | | |
| 179 | (B3) | BITSTRING | 1 | IXLYAMDSTRC_FLAGS2 | Flags | |
| | | 1... | | IXLYAMDSTRC_REIPI | | |
| | | .1.. | | IXLYAMDSTRC_SSCI | | |
| "X'80'" Reapportionment in progress indicator. 1=structure ALTER to change ratio is in progress (LEVEL1) | | | | | | |
| "X'40'" Structure size change in progress indicator. 1=structure ALTER to change structure size is in progress (LEVEL1) | | | | | | |

IXLYAMDA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------------------|-----|--|---|
| Dec | Hex | | | | |
| 180 | (B4) | SIGNED | 4 | IXLYAMDSTRC_TDEC | Total Directory entry count. This count is only substantially accurate |
| 184 | (B8) | SIGNED | 4 | IXLYAMDSTRC_TDAEC | Total Data area element count. This count is only substantially accurate |
| 188 | (BC) | BITSTRING 1... | 1 | IXLYAMDSTRC_BITS (0) IXLYAMDSTRC_AAI | "X'80'" Adjunct Assignment indicator |
| | | .1... | | IXLYAMDSTRC_UDFOQI | "X'40'" UDF order queue indicator. CFLevel 5 or higher. |
| 189 | (BD) | SIGNED | 1 | IXLYAMDSTRC_MSCV | Maximum storage class value |
| 190 | (BE) | BITSTRING | 2 | IXLYAMDSTRC_NCM | Name class mask. CFLEVEL=7 or higher |
| 192 | (C0) | SIGNED | 2 | IXLYAMDSTRC_MCCV | Maximum castout class value |
| 194 | (C2) | SIGNED | 1 | IXLYAMDSTRC_DAEX | Data area element characteristic. The size of a data element in bytes is 256*(2**DAEX) |
| 195 | (C3) | SIGNED | 1 | IXLYAMDSTRC_MDAS | Maximum data area size (i.e maximum number of elements per entry) |
| 196 | (C4) | SIGNED | 4 | IXLYAMDSTRC_SS | Structure size in 4K blocks |
| 200 | (C8) | SIGNED | 4 | IXLYAMDSTRC_MSS | Maximum structure size in 4K blocks |
| 204 | (CC) | SIGNED | 4 | IXLYAMDSTRC_MINSS | Minimum structure size in 4K blocks. The structure may actually be allocated smaller than this, but if so, structure attributes such as entry/element ratio will differ significantly from those which were requested. |
| 208 | (D0) | SIGNED | 4 | IXLYAMDSTRC_DTS | Structure dump table size in 4k blocks |
| 212 | (D4) | SIGNED | 4 | IXLYAMDSTRC_MRSS | Marginal structure size. This is the true minimum size with which the structure can be allocated, regardless of ratio considerations. (LEVEL1) |
| 216 | (D8) | SIGNED | 4 | IXLYAMDSTRC_TSS | Target structure size. For a CFLEVEL 0 facility, the target structure size will be equal to the actual structure size. For a CFLEVEL 1 or higher facility, the target structure size will be equal to the target structure size specified on the initial allocate or subsequent expand or contract request. The target size may or may not be equal to the actual size. (LEVEL1) |
| 220 | (DC) | SIGNED | 4 | IXLYAMDSTRC_TMELC | Target maximum element count. For a CFLEVEL 0 facility the target maximum element count will be equal to the actual maximum element count. For CFLEVEL 1 or higher facilities, the target maximum element count will reflect the target ratio specified on the initial allocate or subsequent reapportionment request. This may or may not equal the actual maximum element count. (LEVEL1) |
| 224 | (E0) | SIGNED | 4 | IXLYAMDSTRC_TMEC | Target maximum entry count. For a CFLEVEL 0 facility the target maximum entry count will be equal to the actual maximum entry count. For CFLEVEL 1 or higher facilities, the target maximum entry count will reflect the target ratio specified on the initial allocate or subsequent reapportionment request. This may or may not equal the actual maximum entry count. (LEVEL1) |
| 228 | (E4) | SIGNED | 4 | IXLYAMDSTRC_PDTDR (0) | |

| Offsets | | | | | |
|--|------|------------|-----|------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 228 | (E4) | SIGNED | 2 | IXLYAMDSTRC_PDTDR_DIR | Pending directory to data ratio. This field is only applicable to CFLEVEL 1 or higher facilities. (LEVEL1) |
| 230 | (E6) | SIGNED | 2 | IXLYAMDSTRC_PDTDR_DATA | Directory ratio portion (LEVEL1) |
| 232 | (E8) | SIGNED | 4 | IXLYAMDSTRC_TSCC | Data element ratio portion (LEVEL1) |
| 236 | (EC) | SIGNED | 4 | IXLYAMDSTRC_TCDEC | Total structure changed entry count. This count is only substantially accurate (LEVEL1) |
| 240 | (F0) | CHARACTER | 4 | | Total structure changed data element count. This count is only substantially accurate (LEVEL1) |
| | | | | | Reserved |
| | | | | | Comment |
| End fields whose validity is indicated by the IXLYAMDSTRC_Valid flag | | | | | |
| | | | | | End of Comment |
| 240 | (F0) | X'F4' | 0 | IXLYAMDSTRC_LEN | **IXLYAMDSTRC" |

| Offsets | | | | | |
|--|-------|------------|-----|---------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | IXLYAMDSTRC1 | Structure Entry for a Cache Structure (STRC), AmdaLevel1 |
| 0 | (0) | CHARACTER | 244 | | Mapped by IXLYAMDSTRC |
| | | | | | Comment |
| Begin fields whose validity is indicated by the IXLYAMDSTRC_Valid flag | | | | | |
| | | | | | End of Comment |
| 244 | (F4) | SIGNED | 4 | IXLYAMDSTRC1_WQC | Write-with-castout queue count (LEVEL8) |
| 248 | (F8) | SIGNED | 4 | IXLYAMDSTRC1_SCCVN | Structure copy controls version number (LEVEL8) |
| 252 | (FC) | SIGNED | 4 | IXLYAMDSTRC1_GCUDRI | Global count of unchanged directory entries with registered interest (LEVEL8) |
| 256 | (100) | SIGNED | 4 | IXLYAMDSTRC1_FDEC | Free directory entry count (LEVEL8) |
| 260 | (104) | SIGNED | 4 | IXLYAMDSTRC1_FDAEC | Free data area element count (LEVEL8) |
| 264 | (108) | SIGNED | 2 | IXLYAMDSTRC1_CCCUR | Castout class cursor (LEVEL8) |
| 266 | (10A) | CHARACTER | 2 | | Reserved |
| | | | | | Comment |
| End fields whose validity is indicated by the IXLYAMDSTRC_Valid flag | | | | | |
| | | | | | End of Comment |
| 268 | (10C) | CHARACTER | 24 | | Reserved |

IXLYAMDA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|--|-------|------------|-----|---------------------------------------|--|
| Dec | Hex | | | | |
| Comment | | | | | |
| Begin fields whose validity is indicated by the IXLYAMDSTRC_AMValid flag | | | | | |
| End of Comment | | | | | |
| 292 | (124) | SIGNED | 4 | IXLYAMDSTRC1_PEERLINKUNAVAILABLECOUNT | Count of Peer Link Not Available conditions (LEVEL10) |
| 296 | (128) | SIGNED | 4 | IXLYAMDSTRC1_EXECUTIONSUPPRESSEDCount | Count of Execution Suppressed conditions (LEVEL10) |
| 300 | (12C) | SIGNED | 4 | IXLYAMDSTRC1_PEERWAITSCHTIMECOUNT | Count of the number of times a duplexed request was holding a subchannel while waiting for a peer request to be started. (LEVEL10) |
| 304 | (130) | CHARACTER | 8 | IXLYAMDSTRC1_PEERWAITSCHSUMTIME | Summed peer subchannel wait time (u-sec) (LEVEL10) |
| 312 | (138) | CHARACTER | 8 | IXLYAMDSTRC1_PEERWAITSCHSUMTIMESQR | Summed peer subchannel wait time squared (u-sec squared) (LEVEL10) |
| 320 | (140) | SIGNED | 4 | IXLYAMDSTRC1_PEERWAITRSVTIMECOUNT | Count of the number of times a request is holding a subchannel in reserve while waiting for a peer subchannel to become available to start a duplexed request. (LEVEL10) |
| 324 | (144) | CHARACTER | 8 | IXLYAMDSTRC1_PEERWAITRSVSUMTIME | Summed peer subchannel wait with reserve time (u-sec) (LEVEL10) |
| 332 | (14C) | CHARACTER | 8 | IXLYAMDSTRC1_PEERWAITRSVSUMTIMESQR | Summed peer subchannel wait with reserve time squared (u-sec squared) (LEVEL10) |
| 340 | (154) | SIGNED | 4 | IXLYAMDSTRC1_PEERWAITCOMPTIMECOUNT | Count of the number of "waiting for peer completion" times reported. One of the two duplexed operations has completed, but the completed subchannel remains unavailable for use until the peer operation completes. (LEVEL10) |
| 344 | (158) | CHARACTER | 8 | IXLYAMDSTRC1_PEERWAITCOMPSUMTIME | Summed waiting for peer completion times. (u-sec) (LEVEL10) |
| 352 | (160) | CHARACTER | 8 | IXLYAMDSTRC1_PEERWAITCOMPSUMTIMESQR | Square of the sum of the waiting for peer completion time. (u-sec squared) (LEVEL10) |
| 360 | (168) | BITSTRING | 8 | IXLYAMDSTRC1_LOGICALVERSION | Logical structure version number. Used in conjunction with the physical version number to identify an instance of a structure. The value of this field is set equal to the physical version number when the structure is initially allocated. It changes when a process that allocates a new instance of the structure (e.g., rebuild) is user-managed, but not when it is system-managed. |
| Comment | | | | | |
| End fields whose validity is indicated by the IXLYAMDSTRC_AMValid flag | | | | | |
| End of Comment | | | | | |
| 368 | (170) | ADDRESS | 4 | IXLYAMDSTRC1_SSCCADDR | Address of the structure copy controls information entry for this structure. A value of zero means that the SSCC record was not provided for this structure because it was not requested, not available, or contained no information. |
| 368 | (170) | X'174' | 0 | IXLYAMDSTRC1_LEN | ** -IXLYAMDSTRC1" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|--------------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | IXLYAMDSCSC | Structure Entry for Cache Storage Class (SCSC) |
| 0 | (0) | BITSTRING | 1 | IXLYAMDSCSC_TYPE | X'23' -- indicates STR data for Storage Class |
| 1 | (1) | CHARACTER | 3 | | Unused |
| 4 | (4) | SIGNED | 4 | IXLYAMDSCSC_LENGTH | Length of IXLYAMDSCSC entry mapping |
| 8 | (8) | CHARACTER | 4 | | reserved |
| 12 | (C) | CHARACTER | 108 | IXLYAMDSCSC_STATS (0) | Storage Class information |
| 12 | (C) | SIGNED | 4 | IXLYAMDSCSC_RHC | Read hit counter |
| 16 | (10) | SIGNED | 4 | IXLYAMDSCSC_RMDHC | Read miss, directory hit counter |
| 20 | (14) | SIGNED | 4 | IXLYAMDSCSC_RMASC | Read miss, assignment suppressed counter |
| 24 | (18) | SIGNED | 4 | IXLYAMDSCSC_RMNAC | Read miss, name assigned counter |
| 28 | (1C) | SIGNED | 4 | IXLYAMDSCSC_RMTSFC | Read miss, target storage class full counter |
| 32 | (20) | SIGNED | 4 | IXLYAMDSCSC_WHCB0C | Write hit change Bit 0 ctr |
| 36 | (24) | SIGNED | 4 | IXLYAMDSCSC_WHCB1C | Write hit change Bit 1 ctr |
| 40 | (28) | SIGNED | 4 | IXLYAMDSCSC_WMNRC | Write miss, not registered counter |
| 44 | (2C) | SIGNED | 4 | IXLYAMDSCSC_WMISC | Write miss, invalid state counter |
| 48 | (30) | SIGNED | 4 | IXLYAMDSCSC_WMTSFC | Write miss, target storage class full counter |
| 52 | (34) | SIGNED | 4 | IXLYAMDSCSC_DERC | Directory entry reclaim counter |
| 56 | (38) | SIGNED | 4 | IXLYAMDSCSC_DTERC | Data entry reclaim counter |
| 60 | (3C) | SIGNED | 4 | IXLYAMDSCSC_XIFDRC | XI directory reclaim counter |
| 64 | (40) | SIGNED | 4 | IXLYAMDSCSC_XIFWC | XI write counter |
| 68 | (44) | SIGNED | 4 | IXLYAMDSCSC_XINIC | XI name invalidation counter |
| 72 | (48) | SIGNED | 4 | IXLYAMDSCSC_XICIC | XI complement invalidation counter |
| 76 | (4C) | SIGNED | 4 | IXLYAMDSCSC_COC | Castout Counter |
| 80 | (50) | SIGNED | 4 | IXLYAMDSCSC_RSMC | Reference signal miss counter |
| 84 | (54) | SIGNED | 4 | IXLYAMDSCSC_TSCFC | Target storage class full counter |
| 88 | (58) | SIGNED | 4 | IXLYAMDSCSC_DEC | Directory entry counter |
| 92 | (5C) | SIGNED | 4 | IXLYAMDSCSC_DAEC | Data area element counter |
| 96 | (60) | SIGNED | 4 | IXLYAMDSCSC_TCC | Total changed counter |
| 100 | (64) | SIGNED | 4 | IXLYAMDSCSC_DAC | Data area counter |
| 104 | (68) | SIGNED | 4 | IXLYAMDSCSC_CRLC | Completed reference lists counter |
| 108 | (6C) | SIGNED | 4 | IXLYAMDSCSC_PCRLC | Partially completed reference lists counter |
| 112 | (70) | SIGNED | 4 | IXLYAMDSCSC_XILRC | XI for local cache vector index replacement |
| 116 | (74) | SIGNED | 4 | IXLYAMDSCSC_WUXIC | Write unchanged with XI counter |

IXLYAMDA Map

| Offsets | | | | | |
|---------|------|------------|-----|-----------------|-----------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 116 | (74) | X'78' | 0 | IXLYAMDSCSC_LEN | **-IXLYAMDSCSC" |

| Offsets | | | | | |
|---------|------|------------|-----|---------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | IXLYAMDSCSC1 | Structure Entry for Cache Storage Class (SCSC), AmdaLevel1 |
| 0 | (0) | CHARACTER | 120 | | Mapped by IXLYAMDSCSC |
| 120 | (78) | SIGNED | 4 | IXLYAMDSCSC1_UDERIC | Unchanged directory entry with registered interest counter (LEVEL8) |
| 124 | (7C) | CHARACTER | 68 | | Reserved |
| 124 | (7C) | X'C0' | 0 | IXLYAMDSCSC1_LEN | **-IXLYAMDSCSC1" |

| Offsets | | | | | |
|---------|-----|------------|-----|--------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | IXLYAMDSCOC | Structure Entry for Cache CastOut Class (SCOC) |
| 0 | (0) | BITSTRING | 1 | IXLYAMDSCOC_TYPE | X'24' -- indicates STR data for CastOut Classes |
| 1 | (1) | CHARACTER | 3 | | Unused |
| 4 | (4) | SIGNED | 4 | IXLYAMDSCOC_LENGTH | Length of IXLYAMDSCOC entry mapping |
| 8 | (8) | ADDRESS | 4 | IXLYAMDSCOCSTATS@ | Address of the SCOC entry. An address of 0 indicates no entries were processed |
| 12 | (C) | SIGNED | 2 | IXLYAMDSCOCBEG | First castout class in the range of castout classes processed |
| 14 | (E) | SIGNED | 2 | IXLYAMDSCOCEND | Last castout class in the range of castout classes processed |
| 14 | (E) | X'10' | 0 | IXLYAMDSCOC_LEN | **-IXLYAMDSCOC" |

| Offsets | | | | | |
|---------|-----|------------|-----|----------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | IXLYAMDSCOCSTATS | Cast Out Class Stats |
| 0 | (0) | SIGNED | 4 | IXLYAMDSCOCENTRY | Number of data elements associated with entries in the indicated castout class |
| 0 | (0) | X'4' | 0 | IXLYAMDSCOCSTATS_LEN | **-IXLYAMDSCOCSTATS" |

| Offsets | | | | | |
|---------|-----|------------|-----|------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | IXLYAMDSC | Subchannel Entry (SC) |
| 0 | (0) | BITSTRING | 1 | IXLYAMDSC_TYPE | X'30' -- indicates SC data |
| 1 | (1) | CHARACTER | 3 | | Unused |
| 4 | (4) | SIGNED | 4 | IXLYAMDSC_LENGTH | Length of IXLYAMDSC entry mapping |
| 8 | (8) | ADDRESS | 4 | IXLYAMDSC_SCNEXT | Address of next SC entry. A value of 0 means last entry for this facility |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|--------------------|------|------------|-----|-------------------------------|--|
| Dec | Hex | | | | |
| Comment | | | | | |
| Configuration Data | | | | | |
| End of Comment | | | | | |
| 12 | (C) | SIGNED | 2 | IXLYAMDSC_SCNUMBER | Subchannel number |
| 14 | (E) | BITSTRING | 1 | IXLYAMDSC_PAM | Path available mask for coupling facility subchannels |
| 15 | (F) | BITSTRING | 1 | IXLYAMDSC_PIM | Path installed mask for coupling facility subchannels |
| 16 | (10) | CHARACTER | 8 | IXLYAMDSC_CHPID_SET (0) | Set of CHPIDs |
| 16 | (10) | BITSTRING | 1 | IXLYAMDSC_CHPIDS | CHPID array for coupling facility subchannels |
| 24 | (18) | SIGNED | 2 | IXLYAMDSC_SCDEVICE | Subchannel device number |
| 26 | (1A) | BITSTRING | 2 | IXLYAMDSC_SUBCH_STATUS (0) | Subchannel status |
| | | 1... .. | | IXLYAMDSC_NOTOPERATIONAL | "X'80" Subchannel not operational |
| | | .1.. | | IXLYAMDSC_NOTINUSE | "X'40" Subchannel operational but not being used for operations |
| | | ..1. | | IXLYAMDSC_ACTIVE | "X'20" Subchannel operational and used for operations |
| 28 | (1C) | CHARACTER | 8 | IXLYAMDSC_CHPIDSETTYPE (0) | Set of CHPID Types |
| 28 | (1C) | SIGNED | 1 | IXLYAMDSC_CHPIDSTYPE | CHPID array for channel path type |
| 36 | (24) | CHARACTER | 4 | | Reserved |
| Comment | | | | | |
| Contention data | | | | | |
| End of Comment | | | | | |
| 40 | (28) | SIGNED | 4 | IXLYAMDSC_SUBCH_BUSY | Subchannel busy count. Compare to the utilization count below. |
| 44 | (2C) | SIGNED | 4 | IXLYAMDSC_ALLPATHS_BUSY | All path busy termination count. Compare to the utilization count below. |
| 48 | (30) | SIGNED | 4 | IXLYAMDSC_UTILIZATION | Utilization count -- Number of times this subchannel was picked for an operation |
| 52 | (34) | CHARACTER | 16 | | |
| 52 | (34) | X'44' | 0 | IXLYAMDSC_LEN | ** -IXLYAMDSC" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|----------------|-----------------------------------|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | IXLYAMDSC1 | Subchannel Entry (SC), AmdaLevel1 |
| 0 | (0) | CHARACTER | 68 | | Mapped by IXLYAMDSC |
| 68 | (44) | CHARACTER | 60 | | Reserved |
| 68 | (44) | X'80' | 0 | IXLYAMDSC1_LEN | ** -IXLYAMDSC1" |

IXLYAMDA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|--------------------|-------|------------|-----|--------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | IXLYAMDSSCC | Structure copy controls record |
| 0 | (0) | BITSTRING | 1 | IXLYAMDSSCC_TYPE | X'25' -- indicates SSCC data |
| 1 | (1) | CHARACTER | 3 | | Unused |
| 4 | (4) | SIGNED | 4 | IXLYAMDSSCC_LENGTH | Length of IXLYAMDSSCC entry mapping |
| 8 | (8) | CHARACTER | 16 | | Reserved |
| 24 | (18) | CHARACTER | 512 | IXLYAMDSSCC_COPYCONTROLS | Structure copy controls (LEVEL8) |
| 536 | (218) | CHARACTER | 32 | | Reserved |
| Comment | | | | | |
| Structure types | | | | | |
| End of Comment | | | | | |
|  | .... | ..11 | | IXLYAMDA_LIST | "X'03'" List structure |
|  | .... | .1.. | | IXLYAMDA_CACHE | "X'04'" Cache Structure |
| | 1111 | 1111 | | IXLYAMDA_LOCK | "X'FF'" Lock Structure |
| Comment | | | | | |
| Channel Path Types | | | | | |
| End of Comment | | | | | |
|  | .... | 1.11 | | IXLYAMDA_CHPIDTYPE_CFS | "X'0B'" CHPID TYPE for CF Sender chpid |
|  | .... | 11.. | | IXLYAMDA_CHPIDTYPE_CFR | "X'0C'" CHPID TYPE for CF Receiver chpid |
| | ...1 | .11. | | IXLYAMDA_CHPIDTYPE_CBS | "X'16'" CHPID TYPE for CF Cluster Bus Sender |
| | ...1 | .111 | | IXLYAMDA_CHPIDTYPE_CBR | "X'17'" CHPID TYPE for CF Cluster Bus Receiver |
| | ...1 | 1... | | IXLYAMDA_CHPIDTYPE_ICS | "X'18'" CHPID TYPE for CF Internal Coupling Sender |
| | ...1 | 1..1 | | IXLYAMDA_CHPIDTYPE_ICR | "X'19'" CHPID TYPE for CF Internal Coupling Receiver |
| | ..1. | ...1 | | IXLYAMDA_CHPIDTYPE_CBP | "X'21'" CHPID TYPE for CF Integrated Cluster Bus Peer |
| | ..1. | ..1. | | IXLYAMDA_CHPIDTYPE_CFP | "X'22'" CHPID TYPE for CF Peer chpid |
| | ..1. | ..11 | | IXLYAMDA_CHPIDTYPE_ICP | "X'23'" CHPID TYPE for CF Internal Coupling Peer |
| 536 | (218) | X'238' | 0 | IXLYAMDSSCC_LEN | ** -IXLYAMDSSCC" |

IXLYAMDA Cross Reference

| Name | Hex Offset | Hex Value |
|------------------------|------------|-----------|
| IXLYAMDA_CACHE | | |
| | 218 | 4 |
| IXLYAMDA_CHPIDTYPE_CBP | | |
| | 218 | 21 |
| IXLYAMDA_CHPIDTYPE_CBR | | |
| | 218 | 17 |
| IXLYAMDA_CHPIDTYPE_CBS | | |
| | 218 | 16 |
| IXLYAMDA_CHPIDTYPE_CFP | | |
| | 218 | 22 |
| IXLYAMDA_CHPIDTYPE_CFR | | |
| | 218 | C |
| IXLYAMDA_CHPIDTYPE_CFS | | |
| | 218 | B |
| IXLYAMDA_CHPIDTYPE_ICP | | |
| | 218 | 23 |
| IXLYAMDA_CHPIDTYPE_ICR | | |
| | 218 | 19 |
| IXLYAMDA_CHPIDTYPE_ICS | | |
| | 218 | 18 |
| IXLYAMDA_LIST | | |
| | 218 | 3 |
| IXLYAMDA_LOCK | | |
| | 218 | FF |
| IXLYAMDA_TYPECF | | |
| | 8 | 10 |
| IXLYAMDA_TYPECFMI | | |
| | 8 | 13 |
| IXLYAMDA_TYPECFRF | | |
| | 8 | 14 |
| IXLYAMDA_TYDESC | | |
| | 8 | 30 |
| IXLYAMDA_TYDESCOC | | |
| | 8 | 24 |
| IXLYAMDA_TYDESCSC | | |
| | 8 | 23 |
| IXLYAMDA_TYDESCLC | | |
| | 8 | 12 |
| IXLYAMDA_TYDESCLL | | |
| | 8 | 11 |
| IXLYAMDA_TYDESCSCC | | |
| | 8 | 25 |
| IXLYAMDA_TYDESTRC | | |
| | 8 | 22 |
| IXLYAMDA_TYDESTRL | | |
| | 8 | 21 |
| IXLYAMDAREA | | |
| | 0 | |
| IXLYAMDAREA_#ENT | | |
| | C | |
| IXLYAMDAREA_CFENT@ | | |
| | 4 | |
| IXLYAMDAREA_LEN | | |
| | 11 | 14 |
| IXLYAMDAREA_LENGTH | | |
| | 0 | |
| IXLYAMDAREA_TLEN | | |
| | 8 | |
| IXLYAMDAREA_VERSION | | |
| | 10 | |
| IXLYAMDCF | | |
| | 0 | |
| IXLYAMDCF_ADTC | | |
| | 114 | |
| IXLYAMDCF_AVAILABLE | | |

| Name | Hex Offset | Hex Value |
|------------------------------|------------|-----------|
| | 4C | 20 |
| IXLYAMDCF_CFID | | |
| | 1C | |
| IXLYAMDCF_CFLEVEL | | |
| | 120 | |
| IXLYAMDCF_CFNAME | | |
| | 20 | |
| IXLYAMDCF_CFNEXT | | |
| | 8 | |
| IXLYAMDCF_COMPPM | | |
| | 53 | |
| IXLYAMDCF_CONNECTED | | |
| | 4C | 80 |
| IXLYAMDCF_CONTENTIONTIME | | |
| | B4 | |
| IXLYAMDCF_CONTENTIONTIMESQR | | |
| | BC | |
| IXLYAMDCF_CUID | | |
| | 5C | |
| IXLYAMDCF_FAILEDOPSUMTIME | | |
| | DC | |
| IXLYAMDCF_FAILEDOPSUMTIMESQR | | |
| | E4 | |
| IXLYAMDCF_FAILEDOPTIMECOUNT | | |
| | D8 | |
| IXLYAMDCF_FCS | | |
| | 108 | |
| IXLYAMDCF_FDS | | |
| | 110 | |
| IXLYAMDCF_FLAGS | | |
| | 4C | |
| IXLYAMDCF_FS | | |
| | 100 | |
| IXLYAMDCF_GDC | | |
| | 10C | |
| IXLYAMDCF_HWINFORMATION | | |
| | 60 | |
| IXLYAMDCF_INVALID | | |
| | 55 | |
| IXLYAMDCF_LEN | | |
| | 124 | 130 |
| IXLYAMDCF_LENGTH | | |
| | 4 | |
| IXLYAMDCF_MANAGED | | |
| | 4C | 40 |
| IXLYAMDCF_MDX | | |
| | 11C | |
| IXLYAMDCF_MI@ | | |
| | 18 | |
| IXLYAMDCF_MRDS | | |
| | 118 | |
| IXLYAMDCF_ND | | |
| | 28 | |
| IXLYAMDCF_NOTVALIDATED | | |
| | 56 | |
| IXLYAMDCF_PATHMASKS | | |
| | 50 | |
| IXLYAMDCF_PHYSPM | | |
| | 50 | |
| IXLYAMDCF_SC@ | | |
| | 14 | |
| IXLYAMDCF_SEQUENCE | | |
| | 58 | |
| IXLYAMDCF_SIDMAX | | |
| | 4A | |

IXLYAMDA Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------------------------|------------|-----------|-------------------------|------------|-----------|
| IXLYAMDCF_SL@ | C | | IXLYAMDCFRF_LENGTH | 4 | |
| IXLYAMDCF_STGI | 11E | | IXLYAMDCFRF_NODE | C | |
| IXLYAMDCF_STR@ | 10 | | IXLYAMDCFRF_PGS | 3C | |
| IXLYAMDCF_STRUCTURE_COUNT | D0 | | IXLYAMDCFRF_RFCTOC | 40 | |
| IXLYAMDCF_SUBCH_ALLOCATED | C4 | | IXLYAMDCFRF_RFNEXT | 8 | |
| IXLYAMDCF_SUBCH_CONTENTION | B0 | | IXLYAMDCFRF_RFSASC | 58 | |
| IXLYAMDCF_SUBCH_INUSE | C8 | | IXLYAMDCFRF_RFSSC | 54 | |
| IXLYAMDCF_SUBCH_MAXLIMIT | CC | | IXLYAMDCFRF_RTCSC | 4C | |
| IXLYAMDCF_TCS | 104 | | IXLYAMDCFRF_RTESC | 48 | |
| IXLYAMDCF_TDS | 10C | | IXLYAMDCFRF_SDTFM | 6C | |
| IXLYAMDCF_TS | FC | | IXLYAMDCFRF_SDTSM | 70 | |
| IXLYAMDCF_TYPE | 0 | | IXLYAMDCFRF_SRDSC | 78 | |
| IXLYAMDCF_VARYPM | 51 | | IXLYAMDCFRF_SSTFM | 5C | |
| IXLYAMDCF_VOLATILE | 4C | 10 | IXLYAMDCFRF_SSTSM | 60 | |
| IXLYAMDCF_XCFPM | 52 | | IXLYAMDCFRF_SYID | 2C | |
| IXLYAMDCFMI | 0 | | IXLYAMDCFRF_TYPE | 0 | |
| IXLYAMDCFMI_INFO@ | 8 | | IXLYAMDCF1 | 0 | |
| IXLYAMDCFMI_INFOELEM | C | | IXLYAMDCF1_LEN | 134 | 1B0 |
| IXLYAMDCFMI_LEN | C | 10 | IXLYAMDCF1_RFADDR | 130 | |
| IXLYAMDCFMI_LENGTH | 4 | | IXLYAMDHD | 0 | |
| IXLYAMDCFMI_TYPE | 0 | | IXLYAMDHD_LEN | 8 | C |
| IXLYAMDCFMINFO | 0 | | IXLYAMDHD_LENGTH | 4 | |
| IXLYAMDCFMINFO_LEN | C | 44 | IXLYAMDHD_NEXT | 8 | |
| IXLYAMDCFMINFO_PEXTIME | 4 | | IXLYAMDHD_TYPE | 0 | |
| IXLYAMDCFMINFO_PMB | 4 | | IXLYAMDSC | 0 | |
| IXLYAMDCFMINFO_PNUM | 0 | | IXLYAMDSC_ACTIVE | 1A | 20 |
| IXLYAMDCFMINFO_PWTTIME | 8 | | IXLYAMDSC_ALLPATHS_BUSY | 2C | |
| IXLYAMDCFRF | 0 | | IXLYAMDSC_CHPID_SET | 10 | |
| IXLYAMDCFRF_CFNAME | 34 | | IXLYAMDSC_CHPIDS | 10 | |
| IXLYAMDCFRF_CHPIDTYPE | 7C | | IXLYAMDSC_CHPIDSETTYPE | 1C | |
| IXLYAMDCFRF_CHPIDTYPES | 7C | | IXLYAMDSC_CHPIDSTYPE | 1C | |
| IXLYAMDCFRF_DSC | 68 | | IXLYAMDSC_LEN | 34 | 44 |
| IXLYAMDCFRF_HESC | 50 | | IXLYAMDSC_LENGTH | 4 | |
| IXLYAMDCFRF_LEN | 84 | 100 | IXLYAMDSC_NOTINUSE | 1A | 40 |

| Name | Hex Offset | Hex Value |
|--------------------------|------------|-----------|
| IXLYAMDSC_NOTOPERATIONAL | 1A | 80 |
| IXLYAMDSC_PAM | E | |
| IXLYAMDSC_PIM | F | |
| IXLYAMDSC_SCDEVICE | 18 | |
| IXLYAMDSC_SCNEXT | 8 | |
| IXLYAMDSC_SCNUMBER | C | |
| IXLYAMDSC_SUBCH_BUSY | 28 | |
| IXLYAMDSC_SUBCH_STATUS | 1A | |
| IXLYAMDSC_TYPE | 0 | |
| IXLYAMDSC_UTILIZATION | 30 | |
| IXLYAMDSCOC | 0 | |
| IXLYAMDSCOC_LEN | E | 10 |
| IXLYAMDSCOC_LENGTH | 4 | |
| IXLYAMDSCOC_TYPE | 0 | |
| IXLYAMDSCOCBEG | C | |
| IXLYAMDSCOCEND | E | |
| IXLYAMDSCOCENTRY | 0 | |
| IXLYAMDSCOCSTATS | 0 | |
| IXLYAMDSCOCSTATS_LEN | 0 | 4 |
| IXLYAMDSCOCSTATS@ | 8 | |
| IXLYAMDSCSC | 0 | |
| IXLYAMDSCSC_COC | 4C | |
| IXLYAMDSCSC_CRLC | 68 | |
| IXLYAMDSCSC_DAC | 64 | |
| IXLYAMDSCSC_DAEC | 5C | |
| IXLYAMDSCSC_DEC | 58 | |
| IXLYAMDSCSC_DERG | 34 | |
| IXLYAMDSCSC_DTERC | 38 | |
| IXLYAMDSCSC_LEN | 74 | 78 |
| IXLYAMDSCSC_LENGTH | 4 | |
| IXLYAMDSCSC_PCRLC | 6C | |
| IXLYAMDSCSC_RHC | C | |
| IXLYAMDSCSC_RMASC | 14 | |
| IXLYAMDSCSC_RMDHC | | |

| Name | Hex Offset | Hex Value |
|---------------------|------------|-----------|
| IXLYAMDSCSC_RMNAC | 10 | |
| IXLYAMDSCSC_RMTSFC | 18 | |
| IXLYAMDSCSC_RSMC | 1C | |
| IXLYAMDSCSC_STATS | 50 | |
| IXLYAMDSCSC_TCC | C | |
| IXLYAMDSCSC_TSCFC | 60 | |
| IXLYAMDSCSC_TYPE | 54 | |
| IXLYAMDSCSC_WHCB0C | 0 | |
| IXLYAMDSCSC_WHCB1C | 20 | |
| IXLYAMDSCSC_WMISC | 24 | |
| IXLYAMDSCSC_WMNRC | 2C | |
| IXLYAMDSCSC_WMTSFC | 28 | |
| IXLYAMDSCSC_WUXIC | 30 | |
| IXLYAMDSCSC_XICIC | 74 | |
| IXLYAMDSCSC_XIFDRC | 48 | |
| IXLYAMDSCSC_XIFWC | 3C | |
| IXLYAMDSCSC_XILRC | 40 | |
| IXLYAMDSCSC_XINIC | 70 | |
| IXLYAMDSCSC1 | 44 | |
| IXLYAMDSCSC1_LEN | 0 | |
| IXLYAMDSCSC1_UDERIC | 7C | C0 |
| IXLYAMDSC1 | 78 | |
| IXLYAMDSC1_LEN | 0 | |
| IXLYAMDSC1_LEN | 44 | 80 |
| IXLYAMDSC1_LEN | 0 | |
| IXLYAMDSC1_LEN | 10 | |
| IXLYAMDSC1_LEN | C | |
| IXLYAMDSC1_LEN | 12 | 24 |
| IXLYAMDSC1_LEN | 4 | |
| IXLYAMDSC1_LEN | F | |
| IXLYAMDSC1_LEN | 8 | |
| IXLYAMDSC1_LEN | 0 | |
| IXLYAMDSC1_LEN | 0 | |
| IXLYAMDSC1_LEN | 24 | 40 |
| IXLYAMDSC1_LEN | 0 | |
| IXLYAMDSC1_LEN | | |

IXLYAMDA Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|--------------------------------|------------|-----------|-----------------------------|------------|-----------|
| | 14 | 24 | | F0 | F4 |
| IXLYAMDSLL_LENGTH | 4 | | IXLYAMDSTRC_LENGTH | 4 | |
| IXLYAMDSLL_LNL | C | | IXLYAMDSTRC_MCCV | C0 | |
| IXLYAMDSLL_LTECHL | 10 | | IXLYAMDSTRC_MDAS | C3 | |
| IXLYAMDSLL_SLNEXT | 8 | | IXLYAMDSTRC_MINSS | CC | |
| IXLYAMDSLL_TYPE | 0 | | IXLYAMDSTRC_MRSS | D4 | |
| IXLYAMDSLL_UIDL | 11 | | IXLYAMDSTRC_MSCV | BD | |
| IXLYAMDSLL1 | 0 | | IXLYAMDSTRC_MSS | C8 | |
| IXLYAMDSLL1_LEN | 24 | A4 | IXLYAMDSTRC_NCM | BE | |
| IXLYAMDSSCC | 0 | | IXLYAMDSTRC_PDTDR | E4 | |
| IXLYAMDSSCC_COPYCONTROLS | 18 | | IXLYAMDSTRC_PDTDR_DATA | E6 | |
| IXLYAMDSSCC_LEN | 218 | 238 | IXLYAMDSTRC_PDTDR_DIR | E4 | |
| IXLYAMDSSCC_LENGTH | 4 | | IXLYAMDSTRC_PHYSICALVERSION | 18 | |
| IXLYAMDSSCC_TYPE | 0 | | IXLYAMDSTRC_QUEUESUMTIME | 7C | |
| IXLYAMDSTRC | 0 | | IXLYAMDSTRC_QUEUESUMTIMESQR | 84 | |
| IXLYAMDSTRC_AAI | BC | 80 | IXLYAMDSTRC_QUEUETIMECOUNT | 78 | |
| IXLYAMDSTRC_AMDATASEQUENCE | 36 | | IXLYAMDSTRC_RBLDSTATUS | 30 | |
| IXLYAMDSTRC_AMVALID | 34 | 80 | IXLYAMDSTRC_RBLDVALID | 15 | 40 |
| IXLYAMDSTRC_ASYNCSTIME | 68 | | IXLYAMDSTRC_REBLDDUPLEXSTR | 30 | 10 |
| IXLYAMDSTRC_ASYNCSTIMESQR | 70 | | IXLYAMDSTRC_REBLDMETHODSTR | 30 | 8 |
| IXLYAMDSTRC_ASYNCSTIMECOUNT | 64 | | IXLYAMDSTRC_REBLDNEWSTR | 30 | 20 |
| IXLYAMDSTRC_BITS | BC | | IXLYAMDSTRC_REBLDOLDSTR | 30 | 40 |
| IXLYAMDSTRC_DAEX | C2 | | IXLYAMDSTRC_REIPI | B3 | 80 |
| IXLYAMDSTRC_DATAFLAGS | B0 | | IXLYAMDSTRC_REQCT | 38 | |
| IXLYAMDSTRC_DELAYQUEUECOUNT | 48 | | IXLYAMDSTRC_REQCTASYNC | 3C | |
| IXLYAMDSTRC_DELAYSUMTIME | 90 | | IXLYAMDSTRC_SCOC@ | 10 | |
| IXLYAMDSTRC_DELAYSUMTIMESQR | 98 | | IXLYAMDSTRC_SCSC@ | C | |
| IXLYAMDSTRC_DELAYTIMECOUNT | 8C | | IXLYAMDSTRC_SID | 16 | |
| IXLYAMDSTRC_DTS | D0 | | IXLYAMDSTRC_SS | C4 | |
| IXLYAMDSTRC_DTSVALID | B0 | 8 | IXLYAMDSTRC_SSCI | B3 | 40 |
| IXLYAMDSTRC_DUMPSERIALHELD | 34 | 40 | IXLYAMDSTRC_STATUS | 34 | |
| IXLYAMDSTRC_DUMPSERIALRELEASED | 4C | | IXLYAMDSTRC_STRINREBLD | 30 | 80 |
| IXLYAMDSTRC_FLAGS2 | B3 | | IXLYAMDSTRC_STRNAME | 20 | |
| IXLYAMDSTRC_HIWORKQUEUECOUNT | 40 | | | | |
| IXLYAMDSTRC_LEN | | | | | |

| Name | Hex Offset | Hex Value |
|---------------------------------------|------------|-----------|
| IXLYAMDSTRC_STRNEXT | 8 | |
| IXLYAMDSTRC_SYNCSUMTIME | 54 | |
| IXLYAMDSTRC_SYNCSUMTIMESQR | 5C | |
| IXLYAMDSTRC_SYNCTIMECOUNT | 50 | |
| IXLYAMDSTRC_SYNCCTOASYNCCOUNT | A0 | |
| IXLYAMDSTRC_TCDEC | EC | |
| IXLYAMDSTRC_TDAEC | B8 | |
| IXLYAMDSTRC_TDEC | B4 | |
| IXLYAMDSTRC_TMEC | E0 | |
| IXLYAMDSTRC_TMELC | DC | |
| IXLYAMDSTRC_TOTALHIWORKCOUNT | A4 | |
| IXLYAMDSTRC_TOTALWORKCOUNT | A8 | |
| IXLYAMDSTRC_TSCC | E8 | |
| IXLYAMDSTRC_TSS | D8 | |
| IXLYAMDSTRC_TTY | 14 | |
| IXLYAMDSTRC_TTY_STATUS | 15 | |
| IXLYAMDSTRC_TYPE | 0 | |
| IXLYAMDSTRC_UDFOQI | BC | 40 |
| IXLYAMDSTRC_VALID | B0 | 80 |
| IXLYAMDSTRC_VERSION | 18 | |
| IXLYAMDSTRC_WORKQUEUECOUNT | 44 | |
| IXLYAMDSTRC1 | 0 | |
| IXLYAMDSTRC1_CCCUR | 108 | |
| IXLYAMDSTRC1_EXECUTIONSUPPRESSED | 128 | |
| IXLYAMDSTRC1_FDAEC | 104 | |
| IXLYAMDSTRC1_FDEC | 100 | |
| IXLYAMDSTRC1_GCUDRI | FC | |
| IXLYAMDSTRC1_LEN | 170 | 174 |
| IXLYAMDSTRC1_LOGICALVERSION | 168 | |
| IXLYAMDSTRC1_PEERLINKUNAVAILABLECOUNT | 124 | |
| IXLYAMDSTRC1_PEERWAITCOMPSUMTIME | 158 | |
| IXLYAMDSTRC1_PEERWAITCOMPSUMTIMESQR | 160 | |
| IXLYAMDSTRC1_PEERWAITCOMPTIMECOUNT | 154 | |

| Name | Hex Offset | Hex Value |
|-------------------------------------|------------|-----------|
| IXLYAMDSTRC1_PEERWAITRSVSUMTIME | 144 | |
| IXLYAMDSTRC1_PEERWAITRSVSUMTIMESQR | 14C | |
| IXLYAMDSTRC1_PEERWAITRSVTIMECOUNT | 140 | |
| IXLYAMDSTRC1_PEERWAITRSCHSUMTIME | 130 | |
| IXLYAMDSTRC1_PEERWAITRSCHSUMTIMESQR | 138 | |
| IXLYAMDSTRC1_PEERWAITRSCHTIMECOUNT | 12C | |
| IXLYAMDSTRC1_SCCVN | F8 | |
| IXLYAMDSTRC1_SSCCADDR | 170 | |
| IXLYAMDSTRC1_WQC | F4 | |
| IXLYAMDSTRL | 0 | |
| IXLYAMDSTRL_AMDATASEQUENCE | 2E | |
| IXLYAMDSTRL_AMVALID | 2C | 80 |
| IXLYAMDSTRL_ASYNCCTIMECOUNT | 6C | |
| IXLYAMDSTRL_ASYNCCTIMESQR | 74 | |
| IXLYAMDSTRL_ASYNCCTIMECOUNT | 68 | |
| IXLYAMDSTRL_CONTCT | 38 | |
| IXLYAMDSTRL_DATAFLAGS | B4 | |
| IXLYAMDSTRL_DELAYQUEUECOUNT | 4C | |
| IXLYAMDSTRL_DELAYSUMTIME | 94 | |
| IXLYAMDSTRL_DELAYSUMTIMESQR | 9C | |
| IXLYAMDSTRL_DELAYTIMECOUNT | 90 | |
| IXLYAMDSTRL_DTS | E4 | |
| IXLYAMDSTRL_DTSVALID | B4 | 8 |
| IXLYAMDSTRL_DUMPSERIALHELD | 2C | 40 |
| IXLYAMDSTRL_DUMPSERIALRELEASED | 50 | |
| IXLYAMDSTRL_EMCCNT | FC | |
| IXLYAMDSTRL_FCONTCT | 3C | |
| IXLYAMDSTRL_FLAGS2 | B7 | |
| IXLYAMDSTRL_HIWORKQUEUECOUNT | 44 | |
| IXLYAMDSTRL_LC | C0 | |
| IXLYAMDSTRL_LELX | BB | |
| IXLYAMDSTRL_LEN | 104 | 108 |
| IXLYAMDSTRL_LENGTH | 4 | |

IXLYAMDA Cross Reference

| Name | Hex Offset | Hex Value |
|----------------------------|------------|-----------|
| IXLYAMDSTR_LSEC | E0 | |
| IXLYAMDSTR_LSELC | D4 | |
| IXLYAMDSTR_LTECH | BA | |
| IXLYAMDSTR_MAXEMCCNT | 100 | |
| IXLYAMDSTR_MDLES | B8 | |
| IXLYAMDSTR_MINSS | CC | |
| IXLYAMDSTR_MLSEC | DC | |
| IXLYAMDSTR_MLSELC | D0 | |
| IXLYAMDSTR_MREIPI | B7 | 20 |
| IXLYAMDSTR_MRSS | E8 | |
| IXLYAMDSTR_MSS | C8 | |
| IXLYAMDSTR_NLE | BC | |
| IXLYAMDSTR_NLTEC | D8 | |
| IXLYAMDSTR_PETELR | F8 | |
| IXLYAMDSTR_PETELR_ELEMENT | FA | |
| IXLYAMDSTR_PETELR_ENTRY | F8 | |
| IXLYAMDSTR_PHYSICALVERSION | 10 | |
| IXLYAMDSTR_QUEUESUMTIME | 80 | |
| IXLYAMDSTR_QUEUESUMTIMESQR | 88 | |
| IXLYAMDSTR_QUEUETIMECOUNT | 7C | |
| IXLYAMDSTR_RBLDSTATUS | 28 | |
| IXLYAMDSTR_RBLDVALID | D | 40 |
| IXLYAMDSTR_REBLDDUPLEXSTR | 28 | 10 |
| IXLYAMDSTR_REBLDMETHODSTR | 28 | 8 |
| IXLYAMDSTR_REBLDNEWSTR | 28 | 20 |
| IXLYAMDSTR_REBLDOLDSTR | 28 | 40 |
| IXLYAMDSTR_REIPI | B7 | 80 |
| IXLYAMDSTR_REQCT | 30 | |
| IXLYAMDSTR_REQCTASYNC | 34 | |
| IXLYAMDSTR_SID | E | |
| IXLYAMDSTR_SS | C4 | |
| IXLYAMDSTR_SSCI | B7 | 40 |
| IXLYAMDSTR_ST | | |

| Name | Hex Offset | Hex Value |
|---------------------------------|------------|-----------|
| IXLYAMDSTR_ST_AI | B9 | |
| IXLYAMDSTR_ST_CI | B9 | 4 |
| IXLYAMDSTR_ST_DI | B9 | 20 |
| IXLYAMDSTR_ST_KI | B9 | 8 |
| IXLYAMDSTR_ST_LI | B9 | 1 |
| IXLYAMDSTR_ST_NI | B9 | 10 |
| IXLYAMDSTR_ST_PLEIDI | B9 | 2 |
| IXLYAMDSTR_ST_SKI | B9 | 40 |
| IXLYAMDSTR_STATUS | 2C | 80 |
| IXLYAMDSTR_STFLAGS | B9 | |
| IXLYAMDSTR_STRINREBLD | 28 | 80 |
| IXLYAMDSTR_STRNAME | 18 | |
| IXLYAMDSTR_STRNEXT | 8 | |
| IXLYAMDSTR_SYNCSUMTIME | 58 | |
| IXLYAMDSTR_SYNCSUMTIMESQR | 60 | |
| IXLYAMDSTR_SYNCTIMECOUNT | 54 | |
| IXLYAMDSTR_SYNCTOASYNCCOUNT | A4 | |
| IXLYAMDSTR_TEMCSTGPCT | 108 | |
| IXLYAMDSTR_TMAXEMCCNT | 104 | |
| IXLYAMDSTR_TMEC | F4 | |
| IXLYAMDSTR_TMELC | F0 | |
| IXLYAMDSTR_TOTALHIWORKCOUNT | A8 | |
| IXLYAMDSTR_TOTALWORKCOUNT | AC | |
| IXLYAMDSTR_TSS | EC | |
| IXLYAMDSTR_TTY | C | |
| IXLYAMDSTR_TTY_STATUS | D | |
| IXLYAMDSTR_TYPE | 0 | |
| IXLYAMDSTR_TYPERLIST | D | 80 |
| IXLYAMDSTR_VALID | B4 | 80 |
| IXLYAMDSTR_VERSION | 10 | |
| IXLYAMDSTR_WORKQUEUECOUNT | 48 | |
| IXLYAMDSTR1 | 0 | |
| IXLYAMDSTR1_EXECUTIONSUPPRESSED | | |

| Name | Hex Offset | Hex Value |
|---------------------------------------|---------------|--------------|
| | 13C | |
| IXLYAMDSTRL1_LEN | 184 | 188 |
| IXLYAMDSTRL1_LOGICALVERSION | 17C | |
| IXLYAMDSTRL1_LSCUR | 10C | |
| IXLYAMDSTRL1_PEERLINKUNAVAILABLECOUNT | 138 | |
| IXLYAMDSTRL1_PEERWAITCOMPSUMTIME | 16C | |
| IXLYAMDSTRL1_PEERWAITCOMPSUMTIMESQR | 174 | |
| IXLYAMDSTRL1_PEERWAITCOMPTIMECOUNT | 168 | |
| IXLYAMDSTRL1_PEERWAITRSVSUMTIME | 158 | |
| IXLYAMDSTRL1_PEERWAITRSVSUMTIMESQR | 160 | |
| IXLYAMDSTRL1_PEERWAITRSVTIMECOUNT | 154 | |
| IXLYAMDSTRL1_PEERWAITRSCHSUMTIME | 144 | |
| IXLYAMDSTRL1_PEERWAITRSCHSUMTIMESQR | 14C | |
| IXLYAMDSTRL1_PEERWAITRSCHTIMECOUNT | 140 | |
| IXLYAMDSTRL1_SCCVN | 110 | |
| IXLYAMDSTRL1_SSCCADDR | 184 | |

IXLYCAA Programming Interface information

Programming Interface information

IXLYCAA

End of Programming Interface information

IXLYCAA Heading Information

Common Name: IXLCACHE Request Answer Area
Macro ID: IXLYCAA
DSECT Name: CAA
Owning Component: Cross System Extended Services (SCIXL)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: User supplied.
 Key: User supplied.
 Residency: User supplied.
Size: 144 bytes
 CAA -- X'0090' bytes
Created by: - Storage area created by IXLCACHE invoker
 - Fields set by IXLCACHE service routine
Pointed to by: ANSAREA parameter on IXLCACHE requests
Serialization: None required
Function: Maps the answer area output from IXLCACHE requests

IXLYCAA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|---------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | CAA | IXLCACHE answer area |
| 0 | (0) | CHARACTER | 12 | CAAHEADER (0) | Answer area header |
| 0 | (0) | SIGNED | 4 | CAALEVEL | Macro level of this version of the IXLYCAA macro |
| 4 | (4) | SIGNED | 4 | CAAOFFSET | Offset from the beginning of the structure (Caa) to the answer area data (CaaData) |
| 8 | (8) | SIGNED | 4 | CAALENGTH | Length of the answer area data |
| 12 | (C) | CHARACTER | 132 | CAADATA (0) | Answer area data |
| 12 | (C) | SIGNED | 4 | CAARETCODE | Return code. Values are defined in IXLYCON. |
| 16 | (10) | SIGNED | 4 | CAARSNCODE | Reason code. Values are defined in IXLYCON. |
| 20 | (14) | BITSTRING | 1 | CAABYTEA (0) | Answer area bit-level fields |
| | | 1... | | CAACHANGED | "X'80" Cached subsystem data changed status. Returned for successful READ_DATA requests and WRITE_DATA requests which fail because of an incompatible state. For structures allocated in a CFLEVEL=4 or higher coupling facility CaaChanged is returned on READ_DATA requests which receive the warning that there was no data to read. CaaChanged is returned for WRITE_DATALIST requests that fail because of an incompatible state. The failing WOB index will be placed in CaaWDLIndex. CaaChanged is returned for CASTOUT_DATALIST requests that fail because the entry data is not changed, the failing entry name index will be placed in CaaCDLIndex. 1 ==> changed, 0 ==> unchanged. |
| | | .1... | | CAAINVLCVI | "X'40" Indicates a local cache vector index was invalidated because interest for the associated item was re-registered using a different vector index. When this bit is set the CaaInvLcviNum field contains the invalidated vector index number. Returned for successful READ_DATA and CASTOUT_DATA requests and WRITE_DATA requests when WHENREG=NO is specified. Also returned on READ_DATA requests which receive the warning that there was no data to read. |
| | | .1... | | CAALCVI | "X'40" Only valid for a WRITE_DATA request with WHENREG=YES and VECTORINDEX specified. CaaLcvi indicates that the value of the vectorindex specified on the request does not match the value of the registered local cache vector index. CaaLcviNum will contain the value of the registered local cache vector index. |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------------|--|
| Dec | Hex | | | | |
| | | ..11 | | CAAPARITY | "X'30" Parity as recorded in the directory entry. Returned for successful READ_DATA and CASTOUT_DATA requests. For structures allocated in a CFLEVEL=4 or higher coupling facility CaaParity is returned on READ_DATA requests which receive the warning that there was no data to read. |
| | | 11.. | | CAACOLLOCKSTATE | "X'0C" Castout lock state. Returned for successful READ_DATA requests, for WRITE_DATA requests which fail because the entry is in an incompatible state, for CASTOUT_DATA requests which fail because the castout lock is already held, and for UNLOCK_CASTOUT and UNLOCK_CO_NAME requests which fail because the castout lock is not held or the castout lock state is incompatible. Values are declared below. UNLOCK_CO_NAME is CFLEVEL=4 or higher. For structures allocated in a CFLEVEL=4 or higher coupling facility, CaaCoLockState is returned on READ_DATA requests which receive the warning that there was no data to read. CaaCoLockState is returned for CASTOUT_DATA LIST requests that fail because the castout lock is already held for the entry name currently being processed. The failing entry name index will be placed in CaaCDLIndex. |
| | |1. | | CAADATACACHED | "X'02" Data-cached indicator. For structures which are allocated in a CFLEVEL=4 or higher coupling facility it is returned on successful READ_DATA requests. For CASTOUT_DATA LIST requests that fail because the entry data is not changed. The failing entry name index will be placed in CaaCDLIndex 1 ==> subsystem data is cached for the entry. 0 ==> no subsystem data is cached, e.g. only a directory entry is allocated for the name. |
| | |1 | | CAAADJAREINVALID | "X'01" Adjunct area validity bit. Returned on READ_DATA and CASTOUT_DATA LIST requests when AdjArea has been specified. 1 ==> Valid adjunct data has been returned. 0 ==> Adjunct data did not exist. |
| 21 | (15) | SIGNED | 1 | CAASTGCLFULL | The storage class from which a reclaiming operation failed, causing the failure of a READ_DATA, WRITE_DATA, WRITE_DATA LIST or REG_NAME LIST request because directory or data entry resources could not be obtained to satisfy the request |
| 22 | (16) | SIGNED | 2 | CAALISTINDEX (0) | Area containing various indexes depending on the type of request and the result of the request |
| 22 | (16) | SIGNED | 2 | CAAULINDEX | Index of the name element that caused failure of an UNLOCK_CASTOUT request or the index of the first unprocessed name element if the UNLOCK_CASTOUT completed prematurely or failed due to an invalid index value. |
| 22 | (16) | SIGNED | 2 | CAARNLINDEX | Index of the current registration block. A value of zero indicates that no registration blocks were successfully processed. For each of the following return/reason codes, the value of CaaRNIndex will be as follows: IxIRetcodeOk => Index of the last registration block that the connector requested be processed (ENDINDEX). IxIRsnocodeTimeout => Index of the first unprocessed registration block. All prior registration blocks were processed. IxIRsnocodeStrFull, IxIRsnocodeBadStgClass => Index of the registration block associated with the failing registration command. All prior registration blocks were processed. IxIRsnCodeBadVectorOp => Index of the registration block containing the first invalid vector index. None of the specified registration blocks were processed (command processing was suppressed). |

IXLYCAA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-------------|--|
| Dec | Hex | | | | |
| 22 | (16) | SIGNED | 2 | CAADNLINDEX | Index of the current name element. For each of the following return/reason codes, the value CaaDNLIndex will be as follows: IxIRsnCodeTimeout => Index of the first unprocessed name element. All prior name elements were processed, however, if ErrorAction=CONTINUE was specified then some of the prior name elements may not have been processed successfully. IxIRsnCodeBadEntryVersion => Index of the name element which failed because of a version number mis-match when ErrorAction=TERMINATE was specified. IxIRsnCodeNoEntry => Index of the name element which failed because the entry specified did not exist in the structure when ErrorAction=TERMINATE was specified. CaaDNLIndex is valid only for structures allocated in a CFLEVEL=5 or higher coupling facility. |
| 22 | (16) | SIGNED | 2 | CAAWDLINDEX | Index of the current write-operation block. For each of the following return/reason codes, the value CaaWDLIndex will be as follows: IxIRsnCodeTimeout => Index of the first unprocessed write-operation block, all prior write-operation blocks were processed. IxIRsnCodeBadEntryVersion => Index of the write-operation block which failed because of a version number mismatch, all prior write-operation blocks were processed. IxIRsnCodeNoEntry => Index of the write- operation block which failed because the entry specified did not exist in the structure, all prior write- operation blocks were processed. IxIRsnCodeStrFull => Index of the write- operation block which failed because the target storage class was full, all prior write-operation blocks were processed. IxIRsnCodeElemNumMisMatch => Index of the write-operation block which failed because the ElemNum in the write-operation block did not match the actual size of the data area in the data block, all prior write-operation blocks were processed. IxIRsnCodeBadElemNum => Index of the write- operation block which failed because an invalid ElemNum was specified in the write-operation block, all prior write- operation blocks were processed. IxIRsnCodeBadParity => Index of the write- operation block which failed because invalid parity bits were specified in the write-operation block, all prior write-operation blocks were processed. IxIRsnCodeBadCOClass => Index of the write- operation block which failed because invalid Cast-out class was specified in the write-operation block, all prior write-operation blocks were processed. IxIRsnCodeBadStgClass => Index of the write-operation block which failed because invalid storage class was specified in the write-operation block, all prior write-operation blocks were processed. IxIRsnCodeIncompatState => Index of the write-operation block associated with the failing write request, all prior write-operation blocks were processed. IxIRsnCodeBadConId => Index of the write-operation block which failed because an invalid local CONID specified in the write-operation block, all prior write-operation blocks were processed. IxIRsnCodeBadVectorOp => Index of the write-operation block containing the first invalid vector index. None of the specified write-operation blocks were processed (command processing was suppressed). IxIRsnCodeBadGetCOflock => Index of the write-operation block which failed because the change control indicator and the get cast-out lock indicator were both set. None of the specified write-operation blocks were processed (command processing was suppressed). |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------------|--|
| Dec | Hex | | | | |
| 22 | (16) | SIGNED | 2 | CAACDLINDEX | Index of the current name element for a CASTOUT_DATALIST command. For each of the following return/reason codes, the value CaaCDLIndex will be as follows: IxIRsnCodeTimeout => Index of the first unprocessed name element. All prior name elements were processed. IxIRsnCodeBufferFull => Index of the name element which caused the request to end prematurely due to a buffer full condition. All prior name elements were processed. IxIRsnCodeCOUnchanged => Index of the name element which failed because the entry specified did not contain changed subsystem data. All prior name elements were processed. IxIRsnCodeCOLockHeld => Index of the name element which failed because the cast-out lock was already held for the entry specified. All prior name elements were processed. IxIRsnCodeNoEntry => Index of the name element which failed because the entry specified did not exist in the structure. All prior name elements were processed. |
| 22 | (16) | SIGNED | 2 | CAACILINDEX | Index of the current name element for a CROSS_INVALLIST command. For each of the following return/reason codes, the value CaaCILIndex will be as follows: IxIRsnCodeTimeout => Index of the first unprocessed name element. All prior name elements were processed. IxIRsnCodeNoEntry => Index of the name element which failed because the entry specified did not exist in the structure, all prior name elements were processed. |
| 24 | (18) | CHARACTER | 2 | CAACOLCKVAL | The contents of the castout lock for the entry. Returned for successful READ_DATA requests, for WRITE_DATA requests which fail because the entry is in an incompatible state, for CASTOUT_DATA requests which fail because the castout lock is held, and for UNLOCK_CASTOUT and UNLOCK_CO_NAME requests which fail either because the castout lock is in an incompatible state or because the castout lock is not held by the connection. Unlock_CO_Name is CFLEVEL=4 or higher. For structures allocated in a CFLEVEL=4 or higher coupling facility CaaCoLockVal is returned on READ_DATA requests which receive the warning that there was no data to read. CaaCoLockVal is returned for CASTOUT_DATALIST requests that fail because the castout lock is already held for the entry name currently being processed. The failing entry name index will be placed in CaaCDLIndex. CaaCoLockVal is returned for WRITE_DATALIST requests which fail because the entry is in an incompatible state. The failing entry name index will be placed in CaaWDLIndex. |
| 26 | (1A) | SIGNED | 2 | CAAREFCOUNT | The number of processed directory entries that initially had the reference bit set for a RESET_REFBIT request. |
| 28 | (1C) | SIGNED | 2 | CAAELEMNUM | Cache entry size expressed as the number of elements in the entry. Returned for successful READ_DATA and CASTOUT_DATA requests when BUFFER or BUFLIST is specified. Also returned for READ_DATA, WRITE_DATALIST and CASTOUT_DATA request which fail due to a bad buffer size. For structures allocated in CFLEVEL=4 or higher coupling facilities, returned for successful READ_DATA requests whether or not BUFFER or BUFLIST is specified. |
| 30 | (1E) | SIGNED | 2 | CAAWDLDATAOFFSET | Offset of the data area in the data block that corresponds to the write-operation block of a WRITE_DATALIST request that caused a failure of a WRITE request or the index of the first unprocessed data area in the data block that corresponds to the write-operation block if the WRITE_DATALIST completed prematurely. |
| 32 | (20) | SIGNED | 4 | CAADIRCOUNT | The number of IXLYDEIBs returned for a READ_DIRINFO request, the number of IXLYCANBs returned for a READ_DIRINFO or READ_COCLASS request, or the number of processed directory entries for a RESET_REFBIT request. Returned when any of these requests completes successfully or prematurely. |

IXLYCAA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|--------------------|---|
| Dec | Hex | | | | |
| 36 | (24) | SIGNED | 4 | CAACOCOUNT | The total number of data elements assigned to the castout class to which data was just written. Returned for successful WRITE_DATA requests of changed subsystem data. |
| 40 | (28) | SIGNED | 4 | CAATOTCHANGED | The total number of entries assigned to the storage class to which data was just written that contain changed or locked-for-cast-out subsystem data. Returned for successful WRITE_DATA requests of changed subsystem data. |
| 44 | (2C) | CHARACTER | 8 | CAARESTOKEN | Request restart token. Returned for READ_DIRINFO, READ_COCLASS, CROSS_INVALID, DELETE_NAME, and RESET_REFBIT requests which complete prematurely. Valid for connectors that specify ALLOWAUTO=NO on their IXLCONN invocation. |
| 52 | (34) | SIGNED | 4 | CAAINVLCVINUM (0) | Invalidated local cache vector index number. Only valid when the CaaInvLcvi bit is set. Returned for successful READ_DATA and CASTOUT_DATA requests, and for WRITE_DATA requests when WHENREG=NO is specified. Also returned on READ_DATA requests which receive the warning that there was no data to read. |
| 52 | (34) | SIGNED | 4 | CAALCVINUM | Local cache vector index number. Returned for WRITE_DATA requests with WHENREG=NO and WRITE_DATA_LIST requests which fail because the castout lock state is incompatible with the request, and for WRITE_DATA requests with WHENREG=YES and VECTORINDEX specified which fail because the VECTORINDEX specified does not match the registered local cache vector (CaaLcviNum will contain the value of the registered local cache vector). For WRITE_DATA requests with WHENREG=YES and VECTORINDEX specified, CaaLcviNum is only valid when the CaaLcvi bit is set. |
| 56 | (38) | SIGNED | 4 | CAASUSPENDTIME | Suspend time for request (microseconds). Will be zero if the request was not suspended or if the support for suspend time computation is not installed. |
| 60 | (3C) | CHARACTER | 8 | CAAUSERDATA | User data field. Returned on successful Castout_Data requests. CaaUserData is valid only for structures allocated in a CFLEVEL=5 or higher coupling facility. |
| 68 | (44) | CHARACTER | 8 | CAAVERSION | Version number. Returned on Write_Data and WRITE_DATA_LIST requests when a version number comparison fails, Delete_NameList requests when ErrorAction=TERMINATE is specified and a version number comparison fails, successful Read_Data requests, and successful Castout_Data requests. CaaVersion is valid only for structures allocated in a CFLEVEL=5 or higher coupling facility. |
| 76 | (4C) | CHARACTER | 20 | CAARSVD (0) | Reserved |
| 76 | (4C) | CHARACTER | 4 | CAARSVD1 | Reserved for system use |
| 80 | (50) | CHARACTER | 16 | CAARSVD2 | Reserved for system use |
| 96 | (60) | CHARACTER | 1 | CAAVERSION0END (0) | End of IXLCACHE answer area for CAA version level 0 |
| 96 | (60) | CHARACTER | 16 | CAAEXTRESTOKEN | Request restart token. Returned for READ_DIRINFO, READ_COCLASS, CROSS_INVALID, DELETE_NAME, and RESET_REFBIT requests which complete prematurely. Valid for connectors that specify ALLOWAUTO=YES on their IXLCONN invocation. |
| 112 | (70) | CHARACTER | 10 | CAAINVLCVVECTOR | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---|------|------------------------|-----|-----------------------------------|--|
| Dec | Hex | | | | |
| 122 | (7A) | BITSTRING 1... | 1 | CAABYTEB (0) CAAADJAREANONADDR | A bit string that represents the invalidated local cache validity indicator for a write-operation response block. Bit 0 in the bit string represents the invalidated local cache validity indicator for the WORB corresponding to the WOB specified by STARTINDEX. Bit i in the bit string represents the WORB corresponding to the STARTINDEX + i WOB specified in the WRITE_DATA_LIST request. Each bit position, when set, indicates that a local cache vector index was invalidated because interest for the associated item was re-registered using a different vector index. When this bit is set, the Worb_InvLcviNum field in the corresponding WORB contains the invalidated vector index number. Returned for successful WRITE_DATA_LIST requests. Answer area bit-level fields |
| | | .1.. | | CAADEIBAREANONADDR | "X'80" Adjunct area addressability bit. Returned on CASTOUT_DATA_LIST requests when AdjArea has been specified. 1 ==> Storage area specified AdjArea is non-addressable 0 ==> AdjArea is addressable |
| 123 | (7B) | CHARACTER | 21 | | "X'40" DEIBAREA addressability bit. Returned on CASTOUT_DATA_LIST requests. 1 ==> Storage area specified DeibArea is non-addressable 0 ==> DeibArea is addressable |
| 144 | (90) | CHARACTER | 1 | CAAVERSION1END (0) | Reserved |
| 144 | (90) | CHARACTER | 1 | CAAEND (0) | End of IXLCACHE answer area for CAA version level 1 End IXLCACHE answer area |
| Comment | | | | | |
| Constants | | | | | |
| End of Comment | | | | | |
| 144 | (90) | X'1' | 0 | CAALEVEL# | "1" Macro level number |
| 144 | (90) | X'1' | 0 | CAALEVELNUM | "1" Macro level number |
| 144 | (90) | X'0' | 0 | CAALEVEL0 | "0" Macro level number |
| 144 | (90) | X'1' | 0 | CAALEVEL1 | "1" Macro level number |
| 144 | (90) | X'60' | 0 | CAALEVEL0LEN | "96" Length of CaaLevel0 answer area |
| 144 | (90) | X'90' | 0 | CAALEVEL1LEN | "144" Length of CaaLevel1 answer area |
| Comment | | | | | |
| Castout lock state values | | | | | |
| Note: To use these values you should reset all of the bits in CAABYTEA except the CAACOLLOCKSTATE bits and then compare the full byte against these values. | | | | | |
| End of Comment | | | | | |
|  |  | .... .... |  | CAACOLS_RESET | "B'00000000" The reset state is entered when the name is assigned to the directory entry or when the castout lock is reset to zeros. |
| | |1.. | | CAACOLS_READFORCASTOUT | "B'00000100" The read for castout state is entered when the castout lock is obtained by a CASTOUT_DATA request. |
| | | 1... | | CAACOLS_WRITEWITHCASTOUT | "B'00001000" The write with castout state is entered when the castout lock is obtained by a WRITE_DATA request specifying GETCOLLOCK=YES. |
| 144 | (90) | X'90' | 0 | CAA_LEN | "*-CAA" |

IXLYCAA Cross Reference

IXLYCAA Cross Reference

| Name | Hex Offset | Hex Value |
|--------------------------|---------------|--------------|
| CAA | 0 | |
| CAA_LEN | 90 | 90 |
| CAAADJAREANONADDR | 7A | 80 |
| CAAADJAREAVALID | 14 | 1 |
| CAABYTEA | 14 | |
| CAABYTEB | 7A | |
| CAACDLINDEX | 16 | |
| CAACHANGED | 14 | 80 |
| CAACILINDEX | 16 | |
| CAACOCOUNT | 24 | |
| CAACOLLOCKSTATE | 14 | C |
| CAACOLLOCKVAL | 18 | |
| CAACOLS_READFORCASTOUT | 90 | 4 |
| CAACOLS_RESET | 90 | 0 |
| CAACOLS_WRITEWITHCASTOUT | 90 | 8 |
| CAADATA | C | |
| CAADATACACHED | 14 | 2 |
| CAADEIBAREANONADDR | 7A | 40 |
| CAADIRCOUNT | 20 | |
| CAADNLINDEX | 16 | |
| CAAELEMNUM | 1C | |
| CAAEND | 90 | |
| CAAEXTRESTOKEN | 60 | |
| CAAHEADER | 0 | |
| CAAINVLCVI | 14 | 40 |
| CAAINVLCVINUM | 34 | |
| CAAINVLCVVECTOR | 70 | |
| CAALCVI | 14 | 40 |
| CAALCVINUM | 34 | |
| CAALENGTH | 8 | |
| CAALEVEL | 0 | |
| CAALEVEL# | 90 | 1 |
| CAALEVELNUM | 90 | 1 |
| CAALEVELO | 90 | 0 |
| CAALEVELOLEN | 90 | 60 |
| CAALEVEL1 | 90 | 1 |
| CAALEVEL1LEN | 90 | 90 |
| CAALISTINDEX | 16 | |
| CAAOFFSET | 4 | |
| CAAPARITY | 14 | 30 |
| CAAREFCOUNT | 1A | |
| CAARESTOKEN | 2C | |
| CAARETCODE | C | |
| CAARNLINDEX | 16 | |
| CAARSNCODE | 10 | |
| CAARSVD | 4C | |
| CAARSVD1 | 4C | |
| CAARSVD2 | 50 | |
| CAASTGCLFULL | 15 | |
| CAASUSPENDTIME | 38 | |
| CAATOTCHANGED | | |

| Name | Hex Offset | Hex Value |
|------------------|---------------|--------------|
| CAAULINDEX | 28 | |
| CAAUSERDATA | 16 | |
| CAAUSERDATA | 3C | |
| CAAVERSION | 44 | |
| CAAVERSION0END | 60 | |
| CAAVERSION1END | 90 | |
| CAAWDLDATAOFFSET | 1E | |
| CAAWDLINDEX | 16 | |

IXLYCANB Programming Interface information

Programming Interface information

IXLYCANB

End of Programming Interface information

IXLYCANB Heading Information

Common Name: Cache Name Block
Macro ID: IXLYCANB
DSECT Name: CANB
Owning Component: Cross System Extended Services (SCIXL)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: User supplied
 Key: User supplied
 Residency: User supplied
Size: CANB -- X'0020' bytes
Created by: - Storage area created by IXLCACHE invoker
 - CANB data created by IXLCACHE service routine
Pointed to by: BUFFER or BUFLIST parameter on IXLCACHE
Serialization: See BUFFER and BUFLIST parameter requirements on the IXLCACHE interface description.
Function: The CANB maps the information returned when the IXLCACHE macro is issued for a READ_COCLASS request or READ_DIRINFO request when DIRINFOFMT=NAMELIST is specified.

IXLYCANB Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|--------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | CANB | Cache Name Block |
| 0 | (0) | CHARACTER | 16 | CANBNAME | Name of structure entry meeting the READ_COCLASS or READ_DIRINFO criteria. |
| 16 | (10) | CHARACTER | 8 | CANBUSERDATA | Directory entry user data for structure entry. |
| 24 | (18) | CHARACTER | 7 | | Reserved |
| 31 | (1F) | SIGNED | 1 | CANBELEMNUM | Cache entry size expressed as the number of elements in the entry. |
| 32 | (20) | CHARACTER | 1 | CANBEND (0) | End of CANB. |
| 32 | (20) | X'20' | 0 | CANB_LEN | "*-CANB" |

IXLYCCIH Programming Interface information

Programming Interface information

IXLYCCIH

End of Programming Interface information

IXLYCCIH Heading Information

| | |
|----------------------------|--|
| Common Name: | Castout Class Information Header |
| Macro ID: | IXLYCCIH |
| DSECT Name: | CCIH |
| Owning Component: | Cross System Extended Services (SCIXL) |
| Eye-Catcher ID: | NONE |
| Storage Attributes: | Subpool: User supplied Key: User supplied Residency: User supplied |
| Size: | CCIHCOSTATSLIST -- X'0020' bytes CCIH1 -- X'0020' bytes CCIHCOUNTS -- X'0004' bytes CCIHCCIBS -- X'0020' bytes CCIH -- X'0004' bytes COUNTS -- X'0004' bytes CCIBS -- X'0020' bytes |
| Created by: | - Storage area created by IXLCACHE invoker - CCIH data created by IXLCACHE service routine |
| Pointed to by: | BUFFER or BUFLIST parameter on IXLCACHE |
| Serialization: | See BUFFER and BUFLIST parameter requirements on the IXLCACHE interface description. |
| Function: | The CCIH contains request-level information returned in the data area from a IXLCACHE READ_COSTATS request. For each castout class, the information returned consists of the number of data elements that are associated with entries in the indicated castout class. For structures which are allocated in a CFLEVEL=5 or higher coupling facility it will also contain the user data field of the first entry if CoStatsFmt=COSTATSLIST is specified on the request. |

IXLYCCIH Map

| Offsets | | | | | |
|---------|-----|------------|-----|--------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | CCIH | Castout Class Information Header |
| 0 | (0) | SIGNED | 2 | CCIHCOCLASSBEG | First castout class in the range of castout classes processed |
| 2 | (2) | SIGNED | 2 | CCIHCOCLASSEND | |
| 4 | (4) | CHARACTER | 1 | CCIHCOUNTSDATA (0) | Last castout class in the range of castout classes processed |
| 4 | (4) | CHARACTER | 1 | CCIHEND (0) | Beginning of data fields |
| 4 | (4) | X'4' | 0 | CCIH_LEN | End of CCIH "-CCIH" |

| Offsets | | | | | |
|---------|------|------------|-----|-------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | CCIHCOSTATSLIST | Castout class Information mapping for addressing CcihCcibs data mapping Reserved |
| 0 | (0) | CHARACTER | 32 | | |
| 32 | (20) | CHARACTER | 1 | CCIHCCIBSDATA (0) | Beginning of data fields |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|---------------------------|------------------------|
| Dec | Hex | | | | |
| 32 | (20) | CHARACTER | 1 | CCIHCOSTATSLISTEND (0) | End of CcihCoStatsList |
| 32 | (20) | X'20' | 0 | CCIHCOSTATSLIST_LEN | **-CCIHCOSTATSLIST" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|-----------------------------|---------------------------------------|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | CCIHCOUNTS | Map the castout class count fields. |
| 0 | (0) | SIGNED | 4 | CCIHCOUNTSCASTOUTCLASSCOUNT | Castout class count of data elements. |
| 0 | (0) | X'4' | 0 | CCIHCOUNTS_LEN | **-CCIHCOUNTS" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | CCIHCCIBS | Castout class count of data elements |
| 0 | (0) | CHARACTER | 32 | CCIHCCIB (0) | |
| 0 | (0) | SIGNED | 4 | CCIHCCIBCOUNT | |
| 4 | (4) | CHARACTER | 4 | CCIHCCIBUSERDATA | For a structure allocated with a UDF (user data field) order queue for each castout class, this field contains the user data of the first entry on the UDF order queue. For a structure allocated without a UDF order queue, this field contains the user data of the first entry on the castout class queue. |
| 8 | (8) | CHARACTER | 8 | | |
| 16 | (10) | CHARACTER | 16 | CCIHCCIBS_LEN | **-CCIHCCIBS" |
| 16 | (10) | X'20' | 0 | | |

IXLYCCIH Cross Reference

| Name | Hex Offset | Hex Value |
|---------------------|------------|-----------|
| CCIH | 0 | |
| CCIH_LEN | 4 | 4 |
| CCIHCCIB | 0 | |
| CCIHCCIBCOUNT | 0 | |
| CCIHCCIBS | 0 | |
| CCIHCCIBS_LEN | 10 | 20 |
| CCIHCCIBSDATA | 20 | |
| CCIHCCIBUSERDATA | 8 | |
| CCIHCOCLASSBEG | 0 | |
| CCIHCOCLASSEND | 2 | |
| CCIHCOSTATSLIST | 0 | |
| CCIHCOSTATSLIST_LEN | 20 | 20 |
| CCIHCOSTATSLISTEND | 20 | |
| CCIHCOUNTS | 0 | |
| CCIHCOUNTS_LEN | 0 | 4 |

| Name | Hex Offset | Hex Value |
|-----------------------------|------------|-----------|
| CCIHCOUNTSCASTOUTCLASSCOUNT | 0 | |
| CCIHCOUNTSDATA | 4 | |
| CCIHEND | 4 | |

IXLYCEPL Programming Interface information

Programming Interface information

IXLYCEPL

End of Programming Interface information

IXLYCEPL Heading Information

Common Name: Contention Exit Parameter List
Macro ID: IXLYCEPL
DSECT Name: CEPL CEPLNT
Owning Component: Cross System Extended Services (SCIXL)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: 205
 Key: Key 0
 Residency: Above 16 MB in virtual storage.
Size: 88 bytes + 184*CEPLENT# + length of resource name
Created by: IXLRQCEI
Pointed to by: First word in parameter list provided to contention exit
Serialization: None required
Function: Maps parameter list to contention exit interface to connected user.

IXLYCEPL Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|---------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | CEPL | Contention exit parameter list |
| 0 | (0) | CHARACTER | 16 | CEPLCONTOKEN | Connect token identifying the connected user who has been chosen by XES to manage this instance of resource contention (i.e. the connector whose contention exit is executing) |
| 16 | (10) | CHARACTER | 8 | CEPLCONDATA | Connect-time data of the connector whose contention exit is driven. This field is user defined data provided as input to IXLCONN. |
| 24 | (18) | ADDRESS | 4 | CEPLRNAME@ | Name of the Resource for which the Contention exit is executing. Please note, the Resource Name along with the Hash Value serves to fully qualify an IXLLOCK Resource |
| 28 | (1C) | SIGNED | 4 | CEPLRNAMELEN | Length of Resource Name |
| 32 | (20) | SIGNED | 4 | CEPLHASHVAL | Hash value of the Resource for which the Contention Exit is executing. Please note, the Hash Value along with the Resource Name fully qualifies an IXLLOCK Resource |
| 36 | (24) | CHARACTER | 32 | CEPLWORK | Contention Exit Work area. Please note, this area is initialized to zero upon the first entry to the Contention Exit. Any updates will persist between invocations of the exit until this instance of Contention management has ceased. |
| 68 | (44) | ADDRESS | 4 | CEPLNEW@ | Address of the entry on the Resource Request queue for a new, pending request that has not been previously presented to the exit. This field is only valid when a new request is present on the queue (i.e. CEPLNEW#=1). The new entry is mapped by CEPLNT |
| 72 | (48) | BITSTRING | 2 | CEPLFLAGS (0) | Informational Flags |
| 72 | (48) | BITSTRING | 1 | CEPLREASONFLAGS (0) | Flags indicating the Reason for which the exit has been given control |
| | | 1... .. | | CEPLRECOVERY | "X'80" Recovery scenario. This flag will be set to ON on the initial invocation of the exit when contention management responsibilities have been assigned due to the connector who was previously assigned these duties having failed or disconnected. This flag will also be set ON when a connector with an interest in the resource (other than the contention manager) has failed or disconnected such that its entry has been removed |
| | | .1... .. | | CEPLNOTIFYRESPONSE | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-----------------------|---|
| Dec | Hex | | | | |
| | | ..1. | | CEPLGRANTFAILED | "X'40" Contention Exit is being invoked to present the results of executing Notify Exits of selected resource owners as requested by the previous invocation of this exit. No new requests will be present on the resource request queue when the exit is being driven for this. |
| | | ...1 | | CEPLRESTARTAFTERDEFER | "X'20" XES was unable to grant one or more requests as instructed by the previous invocation of this exit. The resource request queue is updated to reflect the results of the failing requests(s). If a failed request was an attempt to obtain ownership of a resource (i.e. failed IXLOCK REQUEST(OBTAIN)), the resultant request queue will not contain an entry for the failed request. Any requests to execute the Notify exits of resource owners during the previous invocation of this exit will have been cancelled as a result of the failed attempt to grant a request. No New requests will be present during this invocation of the exit |
| 73 | (49) | BITSTRING | 1 | CEPLMISCFLAGS (0) | "X'10" This flag is ON during the initial invocation of the contention exit after it has been deferred for rebuild processing (i.e. the exit has been restarted after rebuild). Please see the documentation for contention exit return code IxIRcContExitRebuildDefer in mapping macro IXLYCON for more details on deferring a contention exit during rebuild processing. Please note, the content of the Contention Exit Parameter list during this invocation of the exit will be identical to the Contention Exit parameter list that was presented to the previous invocation of the exit (i.e. the invocation which requested that processing be deferred) with the following exceptions... (1) Any work area updates that were made during the previous invocation of the exit will have been preserved (2) A connector whose interest in this resource was reflected on the resource request queue during the previous invocation of the exit may no longer be represented due to recovery processing (i.e. the connector failed or disconnected and cleanup has occurred). Note, the CephRecovery flag will be ON if cleanup has occurred. |
| | | 1... | | CEPLREBUILD | Miscellaneous informational flags |
| | | .1... | | CEPLREBUILDORIG | "X'80" Resource in contention is for the new structure during the rebuild process. |
| 74 | (4A) | SIGNED | 2 | CEPLNEW# | "X'40" Resource in contention is for the original structure during the rebuild process. |
| 76 | (4C) | ADDRESS | 4 | CEPLENT@ | Number of new requests present on the resource request queue. The resource request queue will contain at most one new request during any invocation of the exit. When this value is one, the new entry is pointed to by CephNew |
| 80 | (50) | SIGNED | 4 | CEPLENT# | Address of the first entry on the resource request queue. Each entry is mapped by CEPLNT and contains a pointer to any subsequent entries. This field could possibly contain the same value as the CephNew |
| 84 | (54) | SIGNED | 4 | CEPLRETCODE | Number of entries on the resource request queue. Please note, this value could potentially be zero. |
| 84 | (54) | X'58' | 0 | CEPL_LEN | Contention exit return code. Values are defined in IXLYCON. |
| | | | | | ""-CEPL" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | CEPLENT | Mapping of Resource Request queue elements |

IXLYCEPL Map

| Offsets | | | | | |
|---------|------|------------|-----|----------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | ADDRESS | 4 | CEPLENEXT | Output field indicating the address of next CEPLNT. This field will be zero if this is the last element |
| 4 | (4) | CHARACTER | 4 | CEPLECONVERSION | Output field indicating the Version Number of the connector whose interest in the resource for which the exit is being driven is reflected by this entry. |
| 8 | (8) | CHARACTER | 5 | | Reserved |
| 13 | (D) | SIGNED | 1 | CEPLECONID | Output field indicating the Connector ID of the connector whose interest in the resource for which the exit is being driven is reflected by this entry |
| 14 | (E) | CHARACTER | 6 | | Reserved |
| 20 | (14) | CHARACTER | 16 | CEPLECONNAME | Output field indicating the Connect name of the connector whose interest in the resource for which the exit is being driven is reflected by this entry |
| 36 | (24) | CHARACTER | 16 | | Reserved |
| 52 | (34) | CHARACTER | 32 | CEPLEWORK | Entry Work area. Input/Output field which is initialized to zero upon first presentation to the exit. This workarea is shared between this exit and the Notify exit of the connector represented by this entry. Specifically, if this exit requests that the Notify exit of the connector represented by this entry be executed (i.e. CepleNotify=ON), the NEPLWork field will be initialized to the value of this field. Similarly, any updates made to the NEPLWork field by the Notify exit will be communicated to the Contention Exit via this field |
| 84 | (54) | CHARACTER | 4 | CEPLEFLAGS (0) | |
| 84 | (54) | BITSTRING | 1 | CEPLESTATUSFLAGS (0) | Output flags representing this connector's interest in the specified resource. The condition indicated by the flags within this field are NOT mutually exclusive and as such may be set to ON singularly or in combination |
| | | 1... | | CEPLEOWNED | "X'80" Set to ON if the connector represented by this entry is an owner of the resource for which the Contention exit is being executed |
| | | .1.. | | CEPLEPENDING | "X'40" Set to ON if the entry contains information for a pending request. Specific information regarding the pending request is available in the CepleReq field. |
| 85 | (55) | BITSTRING | 1 | CEPLEACTIONFLAGS (0) | Input flag bits indicating actions,if any, should be taken against the resource/request. Please note, the CepleGrant, CepleDeny, and CepleRegrant flags are mutually exclusive. If more than one of these mutually exclusive flags is specified, the first encountered in the bit string will take precedence (i.e. If CepleGrant and CepleDeny are both ON, XES will process it as a request to grant). |
| | | 1... | | CEPLEGRANT | "X'80" Grant this pending request with the attributes reflected in the CepleGrt fields. If this field is set and this entry does NOT represent a pending request (i.e. CeplePending = OFF), this entry will be ignored. |
| | | .1.. | | CEPLEDENY | "X'40" Deny this pending request. The value of the CepleGudata field will be presented to the requestor via the appropriate means as part of request completion. This ability to "Deny with Updated User Data" could potentially allow informational data, such as why the request was denied, to be transported to the requestor. The values of the CepleGState and CepleGRdata are ignored when this option is used. If this field is set and this entry does NOT represent a pending request (i.e. CeplePending = OFF), this entry will be ignored. |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|------------------|---|
| Dec | Hex | | | | |
| | | ..1. | | CEPLEREGRANT | "X'20" Regrant the resource with the State and User data that are reflected in the appropriate CepleGrt fields. The current value of the Record data may not be changed via the regrant function and, as such, the value of the CepleGRData field is ignored when this option is specified. If this field is set and this entry does NOT represent an owned resource (i.e. CepleOwned = OFF), this entry will be ignored. |
| | | ...1 | | CEPLENOTIFY | "X'10" Execute the Notify Exit of the resource owner who is reflected by this entry. If this field is specified and this entry does NOT represent an owned resource (i.e. CepleOwned = OFF), this entry will be ignored. |
| 86 | (56) | CHARACTER | 2 | | Reserved |
| 88 | (58) | CHARACTER | 200 | CEPLEHELDREQ (0) | Held/Requested Info |
| 88 | (58) | CHARACTER | 68 | CEPLEHELD (0) | Ownership information. The ownership information is only valid if this entry represents an owned resource as indicated by the CepleOwned flag being ON |
| 88 | (58) | SIGNED | 1 | CEPLEHSTATE | Output field indicating the State in which the connector whose interest is reflected by this entry currently owns the specified resource. Valid values for this field are provided via constants in the IXLYCON macro in the form of IXLSTATE.... |
| 89 | (59) | CHARACTER | 64 | CEPLEHUDATA | Output field indicating the User data associated with the owned resource |
| 153 | (99) | CHARACTER | 3 | | Reserved |
| 156 | (9C) | CHARACTER | 132 | CEPLEREQ (0) | Pending Request information |
| 156 | (9C) | SIGNED | 1 | CEPLERSTATE | Output field indicating the State in which the connector whose interest is reflected by this entry desires to own the specified resource. Valid values for this field are provided via constants in the IXLYCON macro in the form of IXLSTATExxxx. If this entry does not represent a pending request (CeplePending=OFF) this area will be initialized to the value of CepleHState. |
| 157 | (9D) | CHARACTER | 64 | CEPLERUDATA | Output field indicating the User Data value in which the connector whose interest is reflected by this entry desires to have associated with the specified resource. If this entry does not represent a pending request (CeplePending=OFF) this area will be initialized to the value of CepleHUData. |
| 221 | (DD) | CHARACTER | 3 | | Reserved |
| 224 | (E0) | CHARACTER | 64 | CEPLERRDATA | Output area indicating the value that was specified via the RDATAVAL field on the pending IXLLOCK request. If this entry does not represent a pending request (CeplePending=OFF) or it represents an IXLLOCK request for which an RDATAVAL specification is not valid then this area will be initialized to zero. |
| 288 | (120) | CHARACTER | 132 | CEPLEGRT (0) | Grant/ReGrant input area When CepleGrant=ON or CepleReGrant=ON indicates State and Udata values in which to Grant/Regrant the request. This field will be initialized to CepleReq in all invocations of the Contention exit with the following exception: (1) On a response from Notify exits, the CepleGrt field will have the same contents as on the previous invocation of the Contention Exit. That is, within any instance of a contention exit communicating with the Notify Exit, the CepleGrt field will persist |
| 288 | (120) | SIGNED | 1 | CEPLEGSTATE | Granted ownership state, Constants in IXLYCON |
| 289 | (121) | CHARACTER | 64 | CEPLEGUDATA | Granted user data |
| 353 | (161) | CHARACTER | 3 | | Reserved |
| 356 | (164) | CHARACTER | 64 | CEPLEGRDATA | Granted Record Data |
| 356 | (164) | X'1A4' | 0 | CEPLENT_LEN | **-CEPLENT" |

IXLYCEPL Cross Reference

IXLYCEPL Cross Reference

| Name | Hex Offset | Hex Value |
|-----------------------|---------------|--------------|
| CEPL | 0 | |
| CEPL_LEN | 54 | 58 |
| CEPLCONDATA | 10 | |
| CEPLCONTOKEN | 0 | |
| CEPLEACTIONFLAGS | | |
| | 55 | |
| CEPLECONID | D | |
| CEPLECONNAME | 14 | |
| CEPLECONVERSION | | |
| | 4 | |
| CEPLEDENY | 55 | 40 |
| CEPLEFLAGS | 54 | |
| CEPLEGRANT | 55 | 80 |
| CEPLEGRDATA | 164 | |
| CEPLEGRT | 120 | |
| CEPLEGSTATE | 120 | |
| CEPLEGUDATA | 121 | |
| CEPLEHELD | 58 | |
| CEPLEHELDREQ | 58 | |
| CEPLEHSTATE | 58 | |
| CEPLEHUDATA | 59 | |
| CEPLENEXT | 0 | |
| CEPLENOTIFY | 55 | 10 |
| CEPLENT | 0 | |
| CEPLENT_LEN | 164 | 1A4 |
| CEPLENT# | 50 | |
| CEPLENT@ | 4C | |
| CEPLEOWNED | 54 | 80 |
| CEPLEPENDING | 54 | 40 |
| CEPLEREGRANT | 55 | 20 |
| CEPLEREQ | 9C | |
| CEPLERRDATA | E0 | |
| CEPLERSTATE | 9C | |
| CEPLERUDATA | 9D | |
| CEPLESTATUSFLAGS | | |
| | 54 | |
| CEPLEWORK | 34 | |
| CEPLFLAGS | 48 | |
| CEPLGRANTFAILED | | |
| | 48 | 20 |
| CEPLHASHVAL | 20 | |
| CEPLMISCFLAGS | | |
| | 49 | |
| CEPLNEW# | 4A | |
| CEPLNEW@ | 44 | |
| CEPLNOTIFYRESPONSE | | |
| | 48 | 40 |
| CEPLREASONFLAGS | | |
| | 48 | |
| CEPLREBUILD | 49 | 80 |
| CEPLREBUILDORIG | | |
| | 49 | 40 |
| CEPLRECOVERY | 48 | 80 |
| CEPLRESTARTAFTERDEFER | | |
| | 48 | 10 |
| CEPLRETCODE | 54 | |
| CEPLRNAME@ | 18 | |
| CEPLRNAMELEN | 1C | |
| CEPLWORK | 24 | |

IXLYCFSE Programming Interface information

Programming Interface information

IXLYCFSE

End of Programming Interface information

IXLYCFSE Heading Information

Common Name: Coupling Facility Sender Event Notification Parameter List
Macro ID: IXLYCFSE
DSECT Name: IXLYCFSE
Owning Component: Cross System Extended Services (SCIXL)
Eye-Catcher ID: CFSE
 Offset: 0
 Length: 4 bytes
Storage Attributes: Subpool: DREF SQA
 Key: 0
Size: IXLYCFSE -- X'0040' bytes
Created by: IXLE1SCH
Pointed to by: On entry to the ENF listen exit, register 1 points to a word which contains the address of the IXLYCFSE data area
Serialization: Serialized by the ENF component
Function: Mapping of parameter list passed to routines listening for ENF44 to communicate XES device changes

IXLYCFSE Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|----------------|------|------------|-----|---------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | IXLYCFSE | , XES Event Notification Parameter List |
| 0 | (0) | CHARACTER | 4 | IXLYCFSEACRONYM | Eyecatcher C'ENF ' |
| 4 | (4) | CHARACTER | 5 | IXLYCFSECOMPONENT | Component acronym |
| 9 | (9) | CHARACTER | 3 | | Unused |
| 12 | (C) | CHARACTER | 4 | | Unused |
| 16 | (10) | CHARACTER | 4 | IXLYCFSETYPE | Type of change that occurred to the device |
| 20 | (14) | SIGNED | 2 | IXLYCFSESUBCHANNEL | Subchannel number |
| 22 | (16) | SIGNED | 2 | IXLYCFSEDEVIC | Device number |
| 24 | (18) | CHARACTER | 40 | | Unused |
| Comment | | | | | |
| TYPE codes | | | | | |
| End of Comment | | | | | |
| 24 | (18) | X'D7C940' | 0 | IXLYCFSETYPEIPI | "C'IPI '" |
| 24 | (18) | X'D7D440' | 0 | IXLYCFSETYPEIPM | "C'IPM '" |
| Comment | | | | | |
| Eyecatcher | | | | | |
| End of Comment | | | | | |
| 24 | (18) | X'C6E2C5' | 0 | IXLYCFSEEEYECATCHER | "C'CFSE'" Eyecatcher |
| 24 | (18) | X'40' | 0 | IXLYCFSE_LEN | "*-IXLYCFSE" |

IXLYCFSE Cross Reference

| Name | Hex Offset | Hex Value |
|---------------------|-----------------------|----------------------|
| IXLYCFSE | 0 | |
| IXLYCFSE_LEN | 18 | 40 |
| IXLYCFSEACRONYM | 0 | |
| IXLYCFSECOMPONENT | 4 | |
| IXLYCFSEDEVIC | 16 | |
| IXLYCFSEEEYECATCHER | 18 | C6E2C5 |
| IXLYCFSESUBCHANNEL | 14 | |
| IXLYCFSETYPE | 10 | |
| IXLYCFSETYPEIPI | 18 | D7C940 |
| IXLYCFSETYPEIPM | 18 | D7D440 |

IXLYCMPL Programming Interface information

Programming Interface information

IXLYCMPL

End of Programming Interface information

IXLYCMPL Heading Information

Common Name: Complete Exit Parameter List
Macro ID: IXLYCMPL
DSECT Name: CMPL CMPLLCSECTION CMPLLOCKSECTION
Owning Component: Cross System Extended Services (SCIXL)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: 205
 Key: Key 0
 Residency: Above 16 MB in virtual storage.
Size: 248 bytes for Lock, 96 bytes for List
Created by: IXLRQCMP for locking requests
 IXLRQLCX for serialized list requests
Pointed to by: First word in parameter list provided to complete exit.
Serialization: None required
Function: Maps parameter list to the Complete Exit interface to
 XES connected users.

IXLYCMPL Map

| Offsets | | | | | |
|-------------------|------|------------|-----|---------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | CMPL | Complete exit parameter list |
| 0 | (0) | CHARACTER | 16 | CMPLCONTOKEN | Connect token |
| 16 | (10) | CHARACTER | 8 | CMPLCONDATA | Connect-time data |
| 24 | (18) | CHARACTER | 16 | CMPLCONNAME | Connect name as specified by connector |
| 40 | (28) | BITSTRING | 1 | CMPLTYPE (0) | Request type that resulted in complete exit being called |
| | | 1... | | CMPLLOCK | "X'80" IXLLOCK request or contention exit specified regrant |
| | | .1.. | | CMPLLIST | "X'40" IXLLIST request |
| | | ..1. | | CMPLCACHE | "X'20" IXLCACHE request |
| 41 | (29) | BITSTRING | 1 | CMPLFLAGS (0) | Flags |
| | | 1... | | CMPLREBUILD | "X'80" On => Event reported for new structure during the rebuild process. Off => structure not in rebuild, or event reported for the original structure during rebuild. |
| 42 | (2A) | CHARACTER | 2 | | Reserved |
| 44 | (2C) | SIGNED | 4 | CMPLRETCODE | Return code. Values are defined in IXLYCON. |
| 48 | (30) | SIGNED | 4 | CMPLRSNCODE | Reason code. Values are defined in IXLYCON. |
| 52 | (34) | CHARACTER | 12 | | Reserved |
| 64 | (40) | CHARACTER | 1 | CMPLEND (0) | Data related to the request is mapped below by CmplLockSection for lock structure requests and CmplLCSection for list and cache structure requests |
| 64 | (40) | X'40' | 0 | CMPL_LEN | "*-CMPL" |
| Comment | | | | | |
| ----- | | | | | |
| Cmpl Lock Section | | | | | |
| ----- | | | | | |
| End of Comment | | | | | |
| 64 | (40) | BITSTRING | 1 | CMPLLOCKSECTION (0) | |
| 64 | (40) | CHARACTER | 8 | CMPLLOCKDATA | Lock time data. This value may be specified via the LOCKDATA keyword on an IXLLOCK request to obtain a resource. If specified, the value will be returned for completion of that event, as well as, for the completion of any subsequent (i.e. Alters, Releases, Regrant) updates to the resource |
| 72 | (48) | ADDRESS | 4 | CMPLRNAME@ | Address of resource name |
| 76 | (4C) | SIGNED | 4 | CMPLRNAMELEN | Length of resource name |
| 80 | (50) | SIGNED | 4 | CMPLHASHVAL | Hash value |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------------------------|---|
| Dec | Hex | | | | |
| 84 | (54) | SIGNED | 1 | CMPLVENT | Type of Event that is being reported (See IXLSEV... constants in macro IXLYCON for valid values) |
| 85 | (55) | BITSTRING | 1 | CMPLRDATAINFO (0) | Flags providing information regarding the record data options specified on the original requests, as well as, an indicator of which related record data fields are valid for this request type |
| | | 1... | | CMPLNORDATA | "X'80" Bit Indicating that no record data operation was requested. This bit will be ON when reporting completion of an IXLLOCK REQUEST(OBTAIN) RDATA(NORDATA), IXLLOCK REQUEST(ALTER) RDATA(UNCHANGED), or a Regrant by the contention exit in which record data updates are not allowed |
| | | .1.. | | CMPLRDATAWRITE | "X'40" Bit indicating that a record data entry was requested to be created or updated. This bit will be ON when reporting completion of an IXLLOCK REQUEST(OBTAIN) RDATA(WRITE) or REQUEST(ALTER) RDATA(WRITE). The contents of the CmplRdata, CmplRtEntryId, and CmplRtEntryCount fields are valid when this field is set to ON |
| | | ..1. | | CMPLRDATADELETE | "X'20" Bit indicating that a record data entry was requested to be deleted. This bit will be ON when reporting completion of an IXLLOCK REQUEST(ALTER) RDATA(DELETE) or REQUEST(RELEASE) RDATA(DELETE) |
| | | ...1 | | CMPLRDATAKEEP | "X'10" Bit indicating that a record data entry was requested to be kept. This bit will be ON when reporting completion of an IXLLOCK REQUEST(RELEASE) RDATA(KEEP) UPDATERDATA(NO) |
| | | 1... | | CMPLRDATAKEEPANDUPDATE | "X'08" Bit indicating that a record data entry was requested to be kept and updated. This bit will be ON when reporting completion of an IXLLOCK REQUEST(RELEASE) RDATA(KEEP) UPDATERDATA(YES). The content of the CmplRdata field is valid when this field is set to ON |
| | |1.. | | CMPLRDATAAREACQUIRE | "X'04" Bit indicating that a record data entry was requested to be Reacquired. This bit will be ON when reporting completion of an IXLLOCK REQUEST(OBTAIN) RDATA(REACQUIRE) UPDATERDATA(NO) |
| | |1. | | CMPLRDATAAREACQUIREANDUPDATE | "X'02" Bit indicating that a record data entry was requested to be Reacquired and Updated. This bit will be ON when reporting completion of an IXLLOCK REQUEST(OBTAIN) RDATA(REACQUIRE) UPDATERDATA(YES). The content of the CmplRdata field is valid when this field is set to ON |
| 86 | (56) | CHARACTER | 1 | | Reserved |
| 87 | (57) | CHARACTER | 65 | CMPLSU (0) | State, userdata |
| 87 | (57) | SIGNED | 1 | CMPLSTATE | Ownership state when return code implies a successful update. Otherwise, requested state. |
| 88 | (58) | CHARACTER | 64 | CMPLUDATA | Userdata associated with the owned resource when the return code implies a successful update. Otherwise, this field contains the requested userdata including any updates made by the contention exit |
| 152 | (98) | CHARACTER | 64 | CMPLRDATA | Value that was written to a Coupling Facility record data entry when return code indicates a successful request. Otherwise, this field contains the value requested on the IXLLOCK request plus any updates made by the contention exit. Please note, the Content of this field is only valid if one of the following bits is ON: CmplRdataWrite, CmplRdataReacquireAndUpdate, CmplRdataKeepAndUpdate |
| 216 | (D8) | CHARACTER | 12 | CMPLRTENTRYID | |

IXLYCMPL Cross Reference

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|---------------------|--|
| Dec | Hex | | | | |
| 228 | (E4) | SIGNED | 4 | CMPLRTENTRYCOUNT | Record Data Entry Identifier of the record data entry that was created or updated when return code indicates a successful request. This field is only valid if the CmplRdataWrite bit is ON |
| 232 | (E8) | CHARACTER | 16 | | Indicates the number of record table elements that are currently in use for this Lock Structure when return code indicates a successful update. This field is only valid if the CmplRdataWrite bit is ON |
| 232 | (E8) | X'B8' | 0 | CMPLLOCKSECTION_LEN | Reserved |
| | | | | | **_CMPLLOCKSECTION" |

Comment

Cmpl List/Cache Section

End of Comment

| | | | | | |
|----|------|-----------|----|------------------------|--------------------------------------|
| 64 | (40) | BITSTRING | 1 | CMPLLCSECTION (0) | |
| 64 | (40) | CHARACTER | 8 | CMPLREQDATA | Request-time user data |
| 72 | (48) | CHARACTER | 8 | CMPLANSAREAINFO (0) | |
| 72 | (48) | SIGNED | 4 | CMPLANSAREALET | Answer area ALET for this request |
| 76 | (4C) | ADDRESS | 4 | CMPLANSAREA@ | Answer area address for this request |
| 80 | (50) | CHARACTER | 16 | | Reserved |
| 80 | (50) | X'60' | 0 | CMPLLCLEN | "96" |
| 80 | (50) | X'F8' | 0 | CMPLLOCKLEN | "248" |
| 80 | (50) | X'20' | 0 | CMPLLCSECTION_LEN | |
| | | | | | **_CMPLLCSECTION" |

IXLYCMPL Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|---------------------|------------|-----------|------------------------------|------------|-----------|
| CMPL | 0 | | | E8 | B8 |
| CMPL_LEN | 40 | 40 | CMPLNORDATA | 55 | 80 |
| CMPLANSAREA@ | 4C | | CMPLRDATA | 98 | |
| CMPLANSAREALET | 48 | | CMPLRDATADELETE | 55 | 20 |
| CMPLANSAREAINFO | 48 | | CMPLRDATAINFO | 55 | |
| CMPLCACHE | 28 | 20 | CMPLRDATAKEEP | 55 | 10 |
| CMPLCONDATA | 10 | | CMPLRDATAKEEPANDUPDATE | 55 | 8 |
| CMPLCONNAME | 18 | | CMPLRDATAAREACQUIRE | 55 | 4 |
| CMPLCONTOKEN | 0 | | CMPLRDATAAREACQUIREANDUPDATE | 55 | 2 |
| CMPLEND | 40 | | CMPLRDATAWRITE | 55 | 40 |
| CMPLLEVENT | 54 | | CMPLREBUILD | 29 | 80 |
| CMPLFLAGS | 29 | | CMPLREQDATA | 40 | |
| CMPLHASHVAL | 50 | | CMPLRETCODE | 2C | |
| CMPLLCLEN | 50 | 60 | CMPLRNAME@ | 48 | |
| CMPLLCSECTION | 40 | | CMPLRNAMELEN | 4C | |
| CMPLLCSECTION_LEN | 50 | 20 | CMPLRSNCODE | 30 | |
| CMPLLIST | 28 | 40 | CMPLRTENTRYCOUNT | E4 | |
| CMPLLOCK | 28 | 80 | CMPLRTENTRYID | D8 | |
| CMPLLOCKDATA | 40 | | | | |
| CMPLLOCKLEN | 50 | F8 | | | |
| CMPLLOCKSECTION | 40 | | | | |
| CMPLLOCKSECTION_LEN | | | | | |

| Name | Hex Offset | Hex Value |
|-----------|---------------|--------------|
| CMPLSTATE | 57 | |
| CMPLSU | 57 | |
| CMPLTYPE | 28 | |
| CMPLUDATA | 58 | |

IXLYCOMP Programming Interface information

Programming Interface information

IXLYCOMP

End of Programming Interface information

IXLYCOMP Heading Information

Common Name: CF Dumping Compdata Record Format Mappings
Macro ID: IXLYCOMP
DSECT Name: CompdataName CompIndex CompStrTrl CompStrHdr CompStrObjMapIndex
 CompStrObjMap CompHashTableHdr CompHashTable CompHashElem CompEntryCntl
Owning Component: Cross System Extended Services (SCIXL)
Eye-Catcher ID: None
Storage Attributes: Subpool: User Defined
 Key: User Defined
 Residency: User Defined
Size: COMPDATANAME -- X'0008' bytes
 COMPINDEX -- X'0100' bytes
 COMPSTRTRL -- X'1000' bytes
 COMPSTRHDR -- X'0008' bytes
 COMPSTROBJMAPINDEX -- X'005C' bytes
 COMPSTROBJMAP -- X'0018' bytes
 COMPHASHTABLEHDR -- X'0008' bytes
 COMPHASHSLOTARRAY -- X'0004' bytes
 COMPHASHELEM -- X'0018' bytes
 COMPENTRYCNTL -- X'0018' bytes
Created by: User
Pointed to by: User
Serialization: None Required
Function: This macro is used to map the dump of CF structure data written to and accessed from the dump dataset. The dump dataset is organized into several compdata spaces. Each compdata space contains a specific type of data.
 NOTE: All of the records in the compdata spaces start at address hex 1000. The first page of all compdata spaces are not used
 NOTE: To interpret the dump reason code, include the IXLYSTRC mapping in your program.

IXLYCOMP Map

| Offsets | | | | | |
|--|-----|------------|-----|-----------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | COMPDATANAME | |
| 0 | (0) | CHARACTER | 3 | COMPDATANAMECOMPONENT | Indicates the component prefix |
| 3 | (3) | CHARACTER | 2 | COMPDATASPACE | NUMBER |
| | | | | | Nth compdata space of a specific type. The first compdata space should be numbered 00. |
| 5 | (5) | CHARACTER | 2 | COMPDATANAMESTRNUM | |
| | | | | | Nth structure dumped |
| 7 | (7) | CHARACTER | 1 | COMPDATANAMETYPE | |
| | | | | | Type of compdata record |
| 7 | (7) | X'8' | 0 | KCOMPDATANAME_LEN | "8" Length of CompDataName |
| Comment | | | | | |
| Constants defined for use in the Compdata name | | | | | |
| End of Comment | | | | | |
| 7 | (7) | X'C3C6C4' | 0 | COMPDATA | COMPONENT |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|-----------------------|---|
| Dec | Hex | | | | |
| | | | | | "C'CFD'" Used to fill in the component section of the compdata name |
| 7 | (7) | X'E2' | 0 | COMPDATATYPEESTR | "C'S'" Structure type compdata |
| 7 | (7) | X'D6' | 0 | COMPDATATYPEEOBJ | "C'O'" Object header type compdata |
| 7 | (7) | X'C8' | 0 | COMPDATATYPEHASH | "C'H'" Hash table type compdata |
| 7 | (7) | X'C3' | 0 | COMPDATATYPEENTRYCNTL | "C'C'" Entry control information type compdata |
| 7 | (7) | X'C4' | 0 | COMPDATATYPEENTRYDATA | "C'D'" Entry data type compdata |
| 7 | (7) | X'C1' | 0 | COMPDATATYPEADJ | "C'A'" Adjunct data type compdata |
| 7 | (7) | X'D3' | 0 | COMPDATATYPELOCK | "C'L'" Lock table type compdata " |
| 7 | (7) | X'E4' | 0 | COMPDATATYPEUSER | "C'U'" User control type compdata |
| 7 | (7) | X'C5' | 0 | COMPDATATYPEEMC | "C'E'" Event monitor control type compdata |
| 7 | (7) | X'D8' | 0 | COMPDATATYPEEVENTQ | "C'Q'" Event queue control type compdata |
| 7 | (7) | X'8' | 0 | COMPDATANAME_LEN | **COMPDATANAME" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-------------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | COMPINDEX | There will be one CompIndex type entry in the master index compdata space for every structure in the dump |
| 0 | (0) | CHARACTER | 16 | COMPINDEXSTRNAME | Name of the structure |
| 16 | (10) | SIGNED | 2 | COMPINDEXSTRDUMPID | Structure Dump ID |
| 18 | (12) | CHARACTER | 2 | | Reserved |
| 20 | (14) | CHARACTER | 16 | COMPINDEXCONNAME | Conname used in requesting the dump |
| 36 | (24) | SIGNED | 1 | COMPINDEXSTRTYPE | Structure type |
| 37 | (25) | SIGNED | 1 | COMPINDEXUIDL | User identifier limit (UIDL) used to determine the size of the list number controls for a list structure. This field will be 0 for a cache structure |
| 38 | (26) | CHARACTER | 2 | COMPINDEXSTR#EBCDIC (0) | Structure number in EBCDIC |
| 38 | (26) | CHARACTER | 2 | COMPINDEXSTRNUMEBCDIC | Structure number in EBCDIC |
| 40 | (28) | CHARACTER | 32 | COMPINDEXHDWND | Node element descriptor |
| 72 | (48) | SIGNED | 4 | COMPINDEXLOCKTBLENTLEN | Length of the lock table entries associated with this structure |
| 76 | (4C) | ADDRESS | 4 | COMPINDEXSTRTRLPTR | Pointer to the structure trailer associated with this structure |
| 80 | (50) | SIGNED | 4 | COMPINDEXNODUMPRSN | Reason why the structure was not dumped - the no dump reason codes are defined in the IXLYSTRC mapping |
| 84 | (54) | BITSTRING | 1 | COMPINDEXFLAGS (0) | Master index flags |
| | | 1... | | COMPINDEXLASTSTR | "X'80'" Indicates that this is the last entry in the master index |
| | | .1.. | | COMPINDEXCONNOTFOUND | |

IXLYCOMP Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-------------------------|--|
| Dec | Hex | | | | |
| | | ...1. | | COMPINDEXSTRINREBLD | "X'40" Indicates that the conname or contoken specified for a cache structure was not found in the policy |
| | | ...1 | | COMPINDEXREBLDOLDSTR | "X'20" Indicates that the the structure is in the process of rebuild |
| | | 1... | | COMPINDEXREBLDNEWSTR | "X'10" Indicates that the structure information pertains to the OLD structure NOTE: Bit is only valid if the CompIndexStrInRebld bit is set |
| | |1.. | | COMPINDEXREBLDDUPLEXSTR | "X'08" Indicates that the structure information pertains to the NEW structure NOTE: Bit is only valid if the CompIndexStrInRebld bit is set |
| | |1. | | COMPINDEXREBLDMETHODSTR | "X'04" ON indicates the structure rebuild is a duplexing rebuild. OFF indicates the structure rebuild is a normal rebuild. NOTE: Bit is only valid if the CompIndexStrInRebld bit is set |
| 85 | (55) | CHARACTER | 1 | | "X'02" ON indicates the structure rebuild is system managed. OFF indicates the structure rebuild is user managed. NOTE: Bit is only valid if the CompIndexStrInRebld bit is set |
| 86 | (56) | SIGNED | 2 | COMPINDEXCONID | Reserved |
| 88 | (58) | CHARACTER | 8 | COMPINDEXCFNAME | Connection ID |
| 96 | (60) | CHARACTER | 32 | COMPINDEXINCIDENTTOKEN | Facility name |
| 128 | (80) | SIGNED | 4 | COMPINDEXCFLEVEL | Incident Token |
| 132 | (84) | CHARACTER | 124 | | Coupling facility operational level of the facility in which the structure is allocated |
| 132 | (84) | X'100' | 0 | KCOMPINDEX_LEN | Reserved |
| 132 | (84) | X'100' | 0 | COMPINDEX_LEN | "256" Length of CompIndex |
| | | | | | "*-COMPINDEX" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|--------|------------|-----|---------------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | COMPSTRTRL | There will be a structure trailer for each structure that is dumped (unless the dump dataset fills or an I/O error occurs while the structure is being dumped) |
| 0 | (0) | SIGNED | 4 | COMPSTRTRLDUMPRSN | Reason for an incomplete dump of the structure - the dump reason codes are defined in the IXLYSTRC mapping |
| 4 | (4) | SIGNED | 4 | COMPSTRTRLOBJIDINCOMPLETE | Object identifier of object that is incomplete |
| 8 | (8) | SIGNED | 2 | COMPSTRTRLDOTINCOMPLETE | Dumping object type of object that is incomplete |
| 10 | (A) | BITSTRING | 1 | COMPSTRTRLFLAGS | (0) |
| | | 1... | | COMPSTRTRLLOCKDUMPED | Structure trailer flags |
| | | .1.. | | COMPSTRTRLUSERDUMPED | "X'80" Indicates that some lock table entries were dumped for this structure |
| 11 | (B) | CHARACTER | 21 | | "X'40" Indicates that some user controls were dumped for this structure |
| 11 | (B) | X'1000' | 0 | KCOMPSTRTRL_LEN | Reserved |
| 4096 | (1000) | X'1000' | 0 | COMPSTRTRL_LEN | "4096" Length of CompStrTrl |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|----------------|------|------------|-----|--------------------------------------|--|
| Dec | Hex | | | | |
| **-COMPSTRTRL" | | | | | |
| | | | | | |
| Offsets | | Type/Value | Len | Name (Dim) | Description |
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | COMPSTRHDR | Header for the structure compdata space. There will be a header in each structure compdata space for a structure |
| 0 | (0) | ADDRESS | 4 | COMPSTRHDRDUMPHDR@ (0) | Pointer to the dump header for a given structure |
| 0 | (0) | ADDRESS | 4 | COMPSTRHDRDUMPHDRPTR | Pointer to the dump header for a given structure |
| 4 | (4) | ADDRESS | 4 | COMPSTRHDROBJMAPINDEX@ (0) | Pointer to the object map index within the structure compdata space. |
| 4 | (4) | ADDRESS | 4 | COMPSTRHDROBJMAPINDEXPTR | Pointer to the object map index within the structure compdata space. |
| 4 | (4) | X'8' | 0 | KCOMPSTRHDR_LEN | "8" Length of CompStrHdr |
| 4 | (4) | X'8' | 0 | COMPSTRHDR_LEN | **-COMPSTRHDR" |
| | | | | | |
| Offsets | | Type/Value | Len | Name (Dim) | Description |
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | COMPSTROBJMAPINDEX | Index by object type in the object map. |
| 0 | (0) | CHARACTER | 16 | COMPSTROBJMAPIDXLISTINFO (0) | Information associated with list object map entries |
| 0 | (0) | ADDRESS | 4 | COMPSTROBJMAPIDXTYPELIST@ (0) | Pointer to the beginning of the listnum type object map entries within the structure compdata space. |
| 0 | (0) | ADDRESS | 4 | COMPSTROBJMAPIDXTYPELISTPTR | Pointer to the beginning of the listnum type object map entries within the structure compdata space. |
| 4 | (4) | SIGNED | 4 | COMPSTROBJMAPIDXLISTMINOBJID | Minimum object identifier of the listnum object map entries |
| 8 | (8) | SIGNED | 4 | COMPSTROBJMAPIDXLISTMAXOBJID | Maximum object identifier of the listnum object map entries |
| 12 | (C) | SIGNED | 4 | COMPSTROBJMAPIDXTOTALNUMLST | Total number of list number object map entries in this compdata space |
| 16 | (10) | CHARACTER | 16 | COMPSTROBJMAPIDXSTGCINFO (0) | Information associated with the storage class object map entries |
| 16 | (10) | ADDRESS | 4 | COMPSTROBJMAPIDXTYPESTGCLASS@ (0) | Pointer to the beginning of the storage class type object map entries |
| 16 | (10) | ADDRESS | 4 | COMPSTROBJMAPIDXTYPESTGCLASSPTR | Pointer to the beginning of the storage class type object map entries |
| 20 | (14) | SIGNED | 4 | COMPSTROBJMAPIDXSTGCMINOBJID | Minimum object identifier of the storage class object map entries |
| 24 | (18) | SIGNED | 4 | COMPSTROBJMAPIDXSTGCMAXOBJID | Maximum object identifier of the storage class object map entries |
| 28 | (1C) | SIGNED | 4 | COMPSTROBJMAPIDXTOTALNUMSTG | |

IXLYCOMP Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-------------------------------------|--|
| Dec | Hex | | | | |
| 32 | (20) | CHARACTER | 16 | COMPSTROBJMAPIDXCOCINFO (0) | Total number of Storage class object map entries in this compdata space |
| 32 | (20) | ADDRESS | 4 | COMPSTROBJMAPIDXTYPECOCLASS@ (0) | Information associated with the castout class object map entries |
| 32 | (20) | ADDRESS | 4 | COMPSTROBJMAPIDXTYPECOCLASSPTR | Pointer to the beginning of the castout class type object map entries |
| 36 | (24) | SIGNED | 4 | COMPSTROBJMAPIDXCOCMINOBJID | Minimum object identifier of the castout class object map entries |
| 40 | (28) | SIGNED | 4 | COMPSTROBJMAPIDXCOCMAXOBJID | Maximum object identifier of the castout class object map entries |
| 44 | (2C) | SIGNED | 4 | COMPSTROBJMAPIDXTOTALNUMCOC | Total number of castout class object map entries in this compdata space |
| 48 | (30) | ADDRESS | 4 | COMPSTROBJMAPIDXTYPELOCKTBL@ (0) | Pointer to the lock table type object map entries |
| 48 | (30) | ADDRESS | 4 | COMPSTROBJMAPIDXTYPELOCKTBLPTR | Pointer to the lock table type object map entries |
| 52 | (34) | ADDRESS | 4 | COMPSTROBJMAPIDXTYPEUSER@ (0) | Pointer to the user control type object map entries |
| 52 | (34) | ADDRESS | 4 | COMPSTROBJMAPIDXTYPEUSERPTR | Pointer to the user control type object map entries |
| 56 | (38) | CHARACTER | 16 | COMPSTROBJMAPIDXEVENTQINFO (0) | Information associated with event queue control object map entries |
| 56 | (38) | ADDRESS | 4 | COMPSTROBJMAPIDXTYPEEVENTQ@ (0) | Pointer to the beginning of the event queue control type object map entries within the structure compdata space. |
| 56 | (38) | ADDRESS | 4 | COMPSTROBJMAPIDXTYPEEVENTQPTR | Pointer to the beginning of the event queue control type object map entries within the structure compdata space. |
| 60 | (3C) | SIGNED | 4 | COMPSTROBJMAPIDXEVENTQMINOBJID | Minimum object identifier of the event queue control object map entries |
| 64 | (40) | SIGNED | 4 | COMPSTROBJMAPIDXEVENTQMAXOBJID | Maximum object identifier of the event queue control object map entries |
| 68 | (44) | SIGNED | 4 | COMPSTROBJMAPIDXTOTALNUMEVENTQ | Total number of event queue control object map entries in this compdata space |
| 72 | (48) | CHARACTER | 20 | COMPSTROBJMAPIDXEMCINFO (0) | Information associated with event monitor control object map entries |
| 72 | (48) | ADDRESS | 4 | COMPSTROBJMAPIDXTYPEEMC@ (0) | Pointer to the beginning of the event monitor control type object map entries within the structure compdata space. |
| 72 | (48) | ADDRESS | 4 | COMPSTROBJMAPIDXTYPEEMCPTR | Pointer to the beginning of the event monitor control type object map entries within the structure compdata space. |
| 76 | (4C) | CHARACTER | 2 | COMPSTROBJMAPIDXTYPEEMCNUM | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-----------------------------|---|
| Dec | Hex | | | | |
| 78 | (4E) | CHARACTER | 2 | | Compdata space number of the pointer to the beginning of the event monitor control type object map entries within the structure compdata space. |
| 80 | (50) | SIGNED | 4 | COMPSTROBJMAPIDXEMCMINOBJID | Reserved |
| | | | | | Minimum object identifier of the event monitor control object map entries |
| 84 | (54) | SIGNED | 4 | COMPSTROBJMAPIDXEMCMAXOBJID | Maximum object identifier of the event monitor control object map entries |
| 88 | (58) | SIGNED | 4 | COMPSTROBJMAPIXTOTALNUMEMC | Total number of event monitor control object map entries in this compdata space |
| 88 | (58) | X'5C' | 0 | KCOMPSTROBJMAPINDEX_LEN | "92" Length of CompStrObjMapIndex |
| 88 | (58) | X'5C' | 0 | COMPSTROBJMAPINDEX_LEN | "*-COMPSTROBJMAPINDEX" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|---------------------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | COMPSTROBJMAP | Object map contained in the structure compdata space |
| 0 | (0) | SIGNED | 4 | COMPSTROBJMAPOBJID | Object identifier |
| 4 | (4) | SIGNED | 2 | COMPSTROBJMAPOBJTYPE | Object type |
| 6 | (6) | BITSTRING | 1 | COMPSTROBJMAPFLAGS | (0) |
| | | | | | Flag byte |
| | | 1... .. | | COMPSTROBJMAPSUMMARY | "X'80" Indicates whether the summary option was specified for the object. If so, there will be no entry control, adjunct, or entry data for the object. |
| | | .1.. .. | | COMPSTROBJMAPENTRYDATAREQUESTED | "X'40" Indicates whether entry data was requested for the given object |
| | | ..1. | | COMPSTROBJMAPADJREQUESTED | "X'20" Indicates whether adjunct was requested for the given object |
| | | ...1 | | COMPSTROBJMAPOBJDUMPED | "X'10" Indicates that this object has been dumped. Note that this bit will NEVER be set in the dump - it is used ONLY for internal processing in the dump writing phase. |
| 7 | (7) | CHARACTER | 1 | | |
| 8 | (8) | ADDRESS | 4 | COMPSTROBJMAPOBJHDRPTR | Pointer to the object header into the object header compdata space |
| 12 | (C) | CHARACTER | 2 | | |
| 14 | (E) | CHARACTER | 2 | COMPSTROBJMAPOBJHDRNUMBER | Number, in EBCDIC, which indicates which object header compdata space the pointer pertains to |
| 16 | (10) | CHARACTER | 8 | | Reserved |
| 16 | (10) | X'18' | 0 | KCOMPSTROBJMAP_LEN | "24" Length of CompStrObjMap |
| 16 | (10) | X'18' | 0 | COMPSTROBJMAP_LEN | "*-COMPSTROBJMAP" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|------------------|-----------------------------------|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | COMPHASHTABLEHDR | Mapping for the hash table header |

IXLYCOMP Map

| Offsets | | | | | |
|---------|-----|------------|-----|--------------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | SIGNED | 4 | COMPHASHTABLENUMSLOTS | Indicates the number of slots that are in the hash table |
| 4 | (4) | ADDRESS | 4 | COMPHASHTABLESLOTARRAY@ (0) | Pointer to the hash table slot array |
| 4 | (4) | ADDRESS | 4 | COMPHASHTABLESLOTARRAYPTR | Pointer to the hash table slot array |
| 4 | (4) | X'8' | 0 | KCOMPHASHTABLEHDR_LEN | "8" Length of CompHashTableHdr |
| 4 | (4) | X'8' | 0 | COMPHASHTABLEHDR_LEN | **_COMPHASHTABLEHDR" |

| Offsets | | | | | |
|---------|-----|------------|-----|---------------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | COMPHASHSLOTARRAY | Mapping for the hash table |
| 0 | (0) | CHARACTER | 4 | COMPHASHTABLESLOT (0) | |
| 0 | (0) | ADDRESS | 4 | COMPHASHTABLEELEM@ (0) | Pointer to the first element on the list for the given hash table entry within the compdata space |
| 0 | (0) | ADDRESS | 4 | COMPHASHTABLEELEMPTTR | Pointer to the first element on the list for the given hash table entry within the compdata space |
| 0 | (0) | X'4' | 0 | KCOMPHASHTABLESLOT_LEN | "4" Length of CompHashTableSlot |
| 0 | (0) | X'4' | 0 | COMPHASHSLOTARRAY_LEN | **_COMPHASHSLOTARRAY" |

| Offsets | | | | | |
|---------|------|------------|-----|--------------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | COMPHASHELEM | Mapping for a hash table element |
| 0 | (0) | BITSTRING | 1 | COMPHASHELEMFLAGS (0) | Flag byte |
| | | 1... | | COMPHASHELEMBYNAME | "X'80" Indicates that the hash element contains the name of the element |
| | | .1.. | | COMPHASHELEMBYID | "X'40" Indicates that the hash element contains the ID of the element |
| | | ..1. | | COMPHASHELEMLAST | "X'20" Indicates that the current hash table element is the last one on the list |
| 1 | (1) | CHARACTER | 1 | | Reserved |
| 2 | (2) | CHARACTER | 2 | COMPHASHENTRYCNTLNUMBER | Number, in EBCDIC, which indicates which entry control compdata space the pointer pertains to |
| 4 | (4) | CHARACTER | 16 | COMPHASHELEMNAME (0) | If the hash element is by name, contains the name of the element |
| 4 | (4) | CHARACTER | 12 | COMPHASHELEMID | IF the hash element is by ID, contains the ID of the element |
| 16 | (10) | CHARACTER | 4 | | Reserved |
| 20 | (14) | ADDRESS | 4 | COMPHASHENTRYCNTLPTR | Pointer to the entry controls in the entry control compdata space |
| 20 | (14) | X'18' | 0 | KCOMPHASHELEM_LEN | "24" Length of CompHashElem |
| 20 | (14) | X'18' | 0 | COMPHASHELEM_LEN | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|------------------|------|------------------------|-----|-------------------------------|--|
| Dec | Hex | | | | |
| **-COMPHASHELEM" | | | | | |
| Offsets | | Type/Value | Len | Name (Dim) | Description |
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | COMPENTRYCNTL | Mapping of the information for one entry |
| 0 | (0) | CHARACTER | 24 | COMPENTRYCNTLHDR (0) | |
| 0 | (0) | ADDRESS | 4 | COMPENTRYCNTLENTTRYDATAPTR | Pointer to the entry's entry data in the entry data compdata space |
| 4 | (4) | BITSTRING 1... | 1 | COMPENTRYCNTLFLAGS (0) | COMPENTRYCNTLEDATASERIALIZED "X'80" Indicates whether the entry data was dumped serialized. An ON setting indicates that the data was serialized |
| | | .1.. | | COMPENTRYCNTLADJSERIALIZED | "X'40" Indicates whether the adjunct data was dumped serialized. An ON setting indicates that the data was serialized |
| 5 | (5) | CHARACTER | 1 | | Reserved |
| 6 | (6) | CHARACTER | 2 | COMPENTRYCNTLENTTRYDATANUMBER | Number, in EBCDIC, which indicates which entry data compdata space the pointer pertains to |
| 8 | (8) | SIGNED | 4 | COMPENTRYCNTLENTTRYDATALEN | Length of the entry data associated with this entry |
| 12 | (C) | ADDRESS | 4 | COMPENTRYCNTLADJPTR | Pointer to the entry's adjunct data in the adjunct compdata space |
| 16 | (10) | CHARACTER | 2 | | |
| 18 | (12) | CHARACTER | 2 | COMPENTRYCNTLADJNUMBER | Number, in EBCDIC, which indicates which adjunct compdata space the pointer pertains to |
| 20 | (14) | SIGNED | 4 | COMPENTRYCNTLPOSWTHINEKEY | Indicates the position of the entry within the entrykey it has |
| 24 | (18) | CHARACTER | 1 | COMPENTRYCNTLINFO (0) | Control information for the current entry NOTE : This field is mapped by the DDil mapping in the IXLYDDIB macro if the structure is a list structure. This field is mapped by the DDic mapping in the IXLYDDIB macro if the structure is a cache structure. To obtain the length of this use the appropriate mappings and length constant in IXLYDDIB. |
| 24 | (18) | X'18' | 0 | KCOMPENTRYCNTLHDR_LEN | "24" Length of CompEntryCntlHdr |
| 24 | (18) | X'18' | 0 | COMPENTRYCNTL_LEN | **-COMPENTRYCNTL" |

IXLYCOMP Cross Reference

IXLYCOMP Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|------------------------------|---------------|--------------|---------------------------|---------------|--------------|
| COMPDATACOMPONENT | | | | 0 | 40 |
| | 7 | C3C6C4 | COMPHASHELEMBYNAME | 0 | 80 |
| COMPDATANAME | 0 | | COMPHASHELEMFLAGS | 0 | |
| COMPDATANAME_LEN | 7 | 8 | COMPHASHELEMID | 4 | |
| COMPDATANAMECOMPONENT | 0 | | COMPHASHELEMLAST | 0 | 20 |
| COMPDATANAMESTRNUM | 5 | | COMPHASHELEMNAME | 4 | |
| COMPDATANAMETYPE | 7 | | COMPHASHENTRYCNTLNUMBER | 2 | |
| COMPDATASPACE | 3 | | COMPHASHENTRYCNTLPTR | 14 | |
| COMPDATATYPEADJ | 7 | C1 | COMPHASHSLOTARRAY | 0 | |
| COMPDATATYPEEMC | 7 | C5 | COMPHASHSLOTARRAY_LEN | 0 | 4 |
| COMPDATATYPEENTRYCNTL | 7 | C3 | COMPHASHTABLEELEM@ | 0 | |
| COMPDATATYPEENTRYDATA | 7 | C4 | COMPHASHTABLEELEMPT | 0 | |
| COMPDATATYPEEVENTQ | 7 | D8 | COMPHASHTABLEHDR | 0 | |
| COMPDATATYPEHASH | 7 | C8 | COMPHASHTABLEHDR_LEN | 4 | 8 |
| COMPDATATYPELOCK | 7 | D3 | COMPHASHTABLENUMSLOTS | 0 | |
| COMPDATATYPEOBJ | 7 | D6 | COMPHASHTABLESLOT | 0 | |
| COMPDATATYPEESTR | 7 | E2 | COMPHASHTABLESLOTARRAY@ | 4 | |
| COMPDATATYPEUSER | 7 | E4 | COMPHASHTABLESLOTARRAYPTR | 4 | |
| COMPENTRYCNTL | 0 | | COMPINDEX | 0 | |
| COMPENTRYCNTL_LEN | 18 | 18 | COMPINDEX_LEN | 84 | 100 |
| COMPENTRYCNTLADJNUMBER | 12 | | COMPINDEXCFLEVEL | 80 | |
| COMPENTRYCNTLADJPTR | C | | COMPINDEXCFNAME | 58 | |
| COMPENTRYCNTLADJSERIALIZED | 4 | 40 | COMPINDEXCONID | 56 | |
| COMPENTRYCNTLEDATASERIALIZED | 4 | 80 | COMPINDEXCONNAME | 14 | |
| COMPENTRYCNTLENTYDATALEN | 8 | | COMPINDEXCONNOTFOUND | 54 | 40 |
| COMPENTRYCNTLENTYDATANUMBER | 6 | | COMPINDEXFLAGS | 54 | |
| COMPENTRYCNTLENTYDATAPTR | 0 | | COMPINDEXHDWND | 28 | |
| COMPENTRYCNTLFLAGS | 4 | | COMPINDEXINCIDENTTOKEN | 60 | |
| COMPENTRYCNTLHDR | 0 | | COMPINDEXLASTSTR | 54 | 80 |
| COMPENTRYCNTLINFO | 18 | | COMPINDEXLOCKTBLENTLEN | 48 | |
| COMPENTRYCNTLPOSWTHINEKEY | 14 | | COMPINDEXNODUMPRSN | 50 | |
| COMPHASHELEM | 0 | | COMPINDEXREBLDDUPLEXSTR | 54 | 4 |
| COMPHASHELEM_LEN | 14 | 18 | COMPINDEXREBLDMETHODSTR | | |
| COMPHASHELEMBYID | | | | | |

| Name | Hex Offset | Hex Value |
|---------------------------------|------------|-----------|
| COMPINDEXREBLDNEWSTR | 54 | 2 |
| COMPINDEXREBLDOLDSTR | 54 | 8 |
| COMPINDEXSTR#EBCDIC | 54 | 10 |
| COMPINDEXSTRDUMPID | 26 | |
| COMPINDEXSTRINREBLD | 10 | |
| COMPINDEXSTRNAME | 54 | 20 |
| COMPINDEXSTRNUMEBDIC | 0 | |
| COMPINDEXSTRTRLPTR | 26 | |
| COMPINDEXSTRTYPE | 4C | |
| COMPINDEXUIDL | 24 | |
| COMPSTRHDR | 25 | |
| COMPSTRHDR_LEN | 0 | |
| COMPSTRHDRDUMPHDR@ | 4 | 8 |
| COMPSTRHDRDUMPHDRPTR | 0 | |
| COMPSTRHDROBJMAPINDEX@ | 0 | |
| COMPSTRHDROBJMAPINDEXPTR | 4 | |
| COMPSTROBJMAP | 4 | |
| COMPSTROBJMAP_LEN | 0 | |
| COMPSTROBJMAPADJREQUESTED | 10 | 18 |
| COMPSTROBJMAPENTRYDATAREQUESTED | 6 | 20 |
| COMPSTROBJMAPFLAGS | 6 | 40 |
| COMPSTROBJMAPIDXCOCINFO | 6 | |
| COMPSTROBJMAPIDXCOCMAXOBJID | 20 | |
| COMPSTROBJMAPIDXCOCMINOBJID | 28 | |
| COMPSTROBJMAPIDXCOCMINOBJID | 24 | |
| COMPSTROBJMAPIDXEMCINFO | 48 | |
| COMPSTROBJMAPIDXEMCMAXOBJID | 54 | |
| COMPSTROBJMAPIDXEMCMINOBJID | 50 | |
| COMPSTROBJMAPIDXEVENTQINFO | 38 | |
| COMPSTROBJMAPIDXEVENTQMAXOBJID | 40 | |
| COMPSTROBJMAPIDXEVENTQMINOBJID | 3C | |
| COMPSTROBJMAPIDXLISTINFO | 0 | |
| COMPSTROBJMAPIDXLISTMAXOBJID | 8 | |
| COMPSTROBJMAPIDXLISTMINOBJID | | |

| Name | Hex Offset | Hex Value |
|---------------------------------|------------|-----------|
| COMPSTROBJMAPIDXSTGCINFO | 4 | |
| COMPSTROBJMAPIDXSTGCMAXOBJID | 10 | |
| COMPSTROBJMAPIDXSTGCMINOBJID | 18 | |
| COMPSTROBJMAPIDXTOTALNUMCOC | 14 | |
| COMPSTROBJMAPIDXTOTALNUMEMC | 2C | |
| COMPSTROBJMAPIDXTOTALNUMEVENTQ | 58 | |
| COMPSTROBJMAPIDXTOTALNUMLST | 44 | |
| COMPSTROBJMAPIDXTOTALNUMSTG | C | |
| COMPSTROBJMAPIDXTYPECOCCLASS@ | 1C | |
| COMPSTROBJMAPIDXTYPECOCCLASSPTR | 20 | |
| COMPSTROBJMAPIDXTYPEEMC@ | 20 | |
| COMPSTROBJMAPIDXTYPEEMCNUM | 48 | |
| COMPSTROBJMAPIDXTYPEEMCPTR | 4C | |
| COMPSTROBJMAPIDXTYPEEVENTQ@ | 48 | |
| COMPSTROBJMAPIDXTYPEEVENTQPTR | 38 | |
| COMPSTROBJMAPIDXTYPELIST@ | 38 | |
| COMPSTROBJMAPIDXTYPELISTPTR | 0 | |
| COMPSTROBJMAPIDXTYPELOCKTBL@ | 0 | |
| COMPSTROBJMAPIDXTYPELOCKTBLPTR | 30 | |
| COMPSTROBJMAPIDXTYPESTGCLASS@ | 30 | |
| COMPSTROBJMAPIDXTYPESTGCLASSPTR | 10 | |
| COMPSTROBJMAPIDXTYPEUSER@ | 10 | |
| COMPSTROBJMAPIDXTYPEUSERPTR | 34 | |
| COMPSTROBJMAPINDEX | 34 | |
| COMPSTROBJMAPINDEX_LEN | 0 | |
| COMPSTROBJMAPOBJDUMPED | 58 | 5C |
| COMPSTROBJMAPOBJHDRNUMBER | 6 | 10 |
| COMPSTROBJMAPOBJHDRPTR | E | |
| COMPSTROBJMAPOBJID | 8 | |
| COMPSTROBJMAPOBJTYPE | 0 | |
| COMPSTROBJMAPSUMMARY | 4 | |
| COMPSTRTRL | 6 | 80 |
| COMPSTRTRL_LEN | 0 | |

IXLYCOMP Cross Reference

| Name | Hex Offset | Hex Value |
|----------------------------|---------------|--------------|
| | 1000 | 1000 |
| COMPSTRTRLDOTINCOMPLETE | | |
| | 8 | |
| COMPSTRTRLDUMPRSN | | |
| | 0 | |
| COMPSTRTRLFLAGS | | |
| | A | |
| COMPSTRTRLLOCKDUMPED | | |
| | A | 80 |
| COMPSTRTRRLOBJIDINCOMPLETE | | |
| | 4 | |
| COMPSTRTRLUSERDUMPED | | |
| | A | 40 |
| KCOMPDATANAME_LEN | | |
| | 7 | 8 |
| KCOMPENTRYCNTLHDR_LEN | | |
| | 18 | 18 |
| KCOMPHASHELEM_LEN | | |
| | 14 | 18 |
| KCOMPHASHTABLEHDR_LEN | | |
| | 4 | 8 |
| KCOMPHASHTABLESLOT_LEN | | |
| | 0 | 4 |
| KCOMPINDEX_LEN | | |
| | 84 | 100 |
| KCOMPSTRHDR_LEN | | |
| | 4 | 8 |
| KCOMPSTROBJMAP_LEN | | |
| | 10 | 18 |
| KCOMPSTROBJMAPINDEX_LEN | | |
| | 58 | 5C |
| KCOMPSTRTRL_LEN | | |
| | B | 1000 |

IXLYCON Programming Interface information

Programming Interface information

IXLYCON

End of Programming Interface information

IXLYCON Heading Information

Common Name: Constants for users of IXL services
Macro ID: IXLYCON
DSECT Name: IXLSDWACOMU
Owning Component: Cross System Extended Services (SCIXL)
Eye-Catcher ID: None
Storage Attributes: Main Storage: N/A
Size: 0 bytes
 IXLSDWACOMU -- X'0008' bytes
Created by: N/A
Pointed to by: N/A
Serialization: None
Function: Provides a list of constants for users of IXL services and exits.

IXLYCON Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|--|-----|------------|-----|---------------------|----------------------|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | | |
| 0 | (0) | X'0' | 0 | IXLRETCODEOK | "0" |
| 0 | (0) | X'4' | 0 | IXLRETCODEWARNING | "4" |
| 0 | (0) | X'8' | 0 | IXLRETCODEPARMERROR | "8" |
| 0 | (0) | X'C' | 0 | IXLRETCODEENVERROR | "12" |
| 0 | (0) | X'10' | 0 | IXLRETCODECOMPERROR | "16" Component error |
| ----- | | | | | |
| | | | | Comment | |
| ----- Constants for use with IXLLOCK service ----- | | | | | |
| IXLLOCK Resource Ownership States | | | | | |
| ----- | | | | | |
| | | | | End of Comment | |
| 0 | (0) | X'0' | 0 | IXLSTATEFREE | "0" |
| 0 | (0) | X'1' | 0 | IXLSTATESHARED | "1" |
| 0 | (0) | X'2' | 0 | IXLSTATEEXCLUSIVE | "2" IXLLOCK Events |
| 0 | (0) | X'1' | 0 | IXLSERVLOCK | "1" |
| 0 | (0) | X'2' | 0 | IXLSERVALTER | "2" |
| 0 | (0) | X'3' | 0 | IXLSERVUNLOCK | "3" |
| 0 | (0) | X'4' | 0 | IXLSERVREGRANT | "4" IXLLOCK Modes |
| 0 | (0) | X'0' | 0 | IXLMODESYNCEXIT | "0" |
| 0 | (0) | X'1' | 0 | IXLMODENORESPONSE | "1" |
| 0 | (0) | X'2' | 0 | IXLMODESYNCSUSPEND | "2" |
| 0 | (0) | X'3' | 0 | IXLMODESYNCFAIL | "3" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|--|-----|------------|-----|------------------------|-------------|
| Dec | Hex | | | | |
| Comment | | | | | |
| Return Codes from the IXLVECTR service | | | | | |
| ----- For the ModifyVectorSize ----- | | | | | |
| End of Comment | | | | | |
| 0 | (0) | X'0' | 0 | IXLRETCODEMODIFYDONE | "0" |
| 0 | (0) | X'4' | 0 | IXLRETCODELESSTHAN | "4" |
| 0 | (0) | X'8' | 0 | IXLRETCODENOSTORAGE | "8" |
| 0 | (0) | X'C' | 0 | IXLRETCODEINVALIDTKN | "12" |
| 0 | (0) | X'10' | 0 | IXLRETCODEINVALIDLEN | "16" |
| Comment | | | | | |
| ----- For the TestListState ----- | | | | | |
| End of Comment | | | | | |
| 0 | (0) | X'0' | 0 | IXLRETCODELSTEMPTY | "0" |
| 0 | (0) | X'4' | 0 | IXLRETCODELSTNONEMPTY | "4" |
| 0 | (0) | X'8' | 0 | IXLRETCODEINDXINVALID | "8" |
| Comment | | | | | |
| ----- For the LTVECENTRIES ----- | | | | | |
| End of Comment | | | | | |
| 0 | (0) | X'0' | 0 | IXLRETCODEALLEMPVAL | "0" |
| 0 | (0) | X'4' | 0 | IXLRETCODESOMENEINV | "4" |
| Comment | | | | | |
| ----- For the TestLocalCache ----- | | | | | |
| End of Comment | | | | | |
| 0 | (0) | X'0' | 0 | IXLRETCODEBUFVALID | "0" |
| 0 | (0) | X'4' | 0 | IXLRETCODEBUFNOTVALID | "4" |
| Comment | | | | | |
| ----- For the TestLocalCache ----- | | | | | |
| End of Comment | | | | | |
| 0 | (0) | X'0' | 0 | IXLRETCODECONNECTED | "0" |
| 0 | (0) | X'4' | 0 | IXLRETCODENOTCONNECTED | "4" |

IXLYCON Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---|-----|------------|-----|---------------------------|---|
| Dec | Hex | | | | |
| Comment | | | | | |
| Reason Codes -- IxlRetCodeWarning (Note that the reason codes are of the form "xxxxYYYY" where "xxxx" is used to contain internal diagnostic information) | | | | | |
| End of Comment | | | | | |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEOWNINGRESOURCES | "X'00000401" Disconnect while owning IXLLOCK resources. |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEASYNCH | "X'00000402" Request will be completed asynchronously |
| Comment | | | | | |
| '00000403'X - reserved | | | | | |
| End of Comment | | | | | |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEMOREDATA | "X'00000404" More data exists to be returned - buffer too small |
| Comment | | | | | |
| '00000405'X - reserved | | | | | |
| End of Comment | | | | | |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODENOMOREERTES | "X'00000406" There are no more recording elements to be read |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODESPECIALCONN | "X'00000407" The connection was completed. Additional status information is provided about the structure and/or the connector in the CONA. CONAFLAG contains flags which indicate one or more of the following: connector has been reconnected, rebuild in progress, rebuild stop in progress, alter in progress, or a user sync point event is set. |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODERTENOTFOUND | "X'00000408" IXLSYNCH request to clear record structure element found no such entry allocated. The state and/or user data was updated as requested. |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODETIMEOUT | "X'00000409" IXLLIST, IXLCACHE, or IXLRT request to process multiple structure entries completed prematurely due to a model dependent timeout. |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODENOREADDATA | "X'0000040A" IXLCACHE request to read entry data caused interest to be registered, but no data was cached or data existed but the read was suppressed hence no data was read. If the structure entry contained data and adjunct, and ADJAREA was specified, then adjunct was returned and the CaaAdjAreaValid bit in the ANSAREA was set to '1'. If adjunct data did not exist then the CaaAdjAreaValid bit was set to '0'. |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEHIGHCOEND | "X'0000040B" IXLCACHE request to read cast-out class statistics specified an ending cast-out class range value that exceeded the defined number of classes for the structure. A subrange of classes through the maximum cast-out class was reported on. |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODENOADJUNCTDATA | "X'0000040C" IXLCACHE request specified that adjunct data was to be retrieved for an entry, but the structure does not support adjunct data. Normal entry data was retrieved if requested. |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|--------------------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADREADADJDATA | "X'0000040D" IXLLIST or IXLCACHE request specified that adjunct data was to be retrieved for an entry, but the provided virtual storage area for adjunct data is not addressable. If requested, normal entry data was retrieved. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODELOCKNOTHELD | "X'0000040E" IXLLIST request to determine if a structure lock is held by the invoking connection found that the lock is not held by this connection. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBUFFERFULL | "X'0000040F" IXLLIST, IXLCACHE, or IXLRT request to process multiple structure entries completed prematurely due to a buffer full condition. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODELOCKCOND | "X'00000410" An IXLLIST request that specified LOCKOPER=HELDDBY, or specified LOCKMODE=COND, or specified a LOCKCOMP value, found the lock not currently held as required for successful command execution. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEEXITCOND | "X'00000411" An IXLLIST request that specified LOCKMODE=EXIT could not obtain the latch as required for successful command execution |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODELOCKHELDDBYSYS | "X'00000412" IXLLIST request to determine if a structure lock is held by the invoking connection found the lock was held by the system on behalf of this connection. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEREQNOTCOMP | "X'00000413" An IXLFComp request to test the status of an asynchronous request found that it had not yet completed. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODERCLVCTRNOTSET | "X'00000414" An IXLCACHE request to set the reclaim vector was not performed because either the structure size or the entry-to-element ratio is being changed via IXLALTER. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEALREADYREBUILDING | "X'00000415" The IXLREBLD START or STARTDUPLEX request is ignored because structure rebuild has already been initiated for the same structure name. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEALREADYSTOPPING | "X'00000416" The IXLREBLD STOP or STOPDUPLEX request is ignored because stop processing was in progress for the same structure name. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODENOTLASTCONFIRMATION | "X'00000417" Confirmation processed, however, the next sync point was not set because not all confirmations had been received. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODENOELEMENTTOKEEP | "X'00000418" User specified to keep Record element when releasing resource, but there is no element to keep. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODENOUPTDATEONKEEP | "X'00000419" User specified to update a record elements contents when specifying IXLLOCK, RELEASE but the update was unable to be made. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEFORCECONDELSTR | "X'0000041A" Force connection was successful but also resulted in the deallocation of the structure |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEPENDING | "X'0000041C" Force request was accepted but could not be processed immediately. It will be processed when the condition preventing the request from being processed is resolved. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEIGNOREFORREBUILDSTOP | "X'0000041D" The request is ignored because stop processing was in progress for structure rebuild. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODESYNCHRTNOTDELETED | |

IXLYCON Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|--|-----|------------|-----|------------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODENOLOCKSHED | "X'0000041E" Resource released via IXLSYNCH. However record data element could not be deleted. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEUSYNCEVENTSET | "X'0000041F" An IXLLIST request specifying LOCKOPER=READNEXT found no locks held from the LOCKINDEX lock to the end of the lock table. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODESTGCLASSERR | "X'00000420" The user event specified has already been set by a peer connection. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODECOCLASSERR | "X'00000421" An IXLMG request to read storage class data could not return all requested data |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODECOCLASSERR | "X'00000422" An IXLMG request to read cast out class data could not return all requested data |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODESTRUCTUREERR | "X'00000423" An IXLMG request to read structure data could not return the requested data |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODENODELETEONRELEASE | "X'00000424" User specified to delete a record element's contents when specifying IXLLOCK, RELEASE but the delete was unable to be made. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODENOSTRFOUND | "X'00000425" No structures eligible for structure rebuild were found in the specified coupling facility |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODESTRUCTUREFAIL | "X'00000426" An IXLMG request to read structure data could not return the requested data, the structure is failed |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEALREADYALTERING | "X'00000427" Request rejected because alter is in progress for the structure. A new alter request will not be accepted until current alter completes or is stopped. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEIGNOREFORSYSGDSTOP | "X'00000428" Response ignored because the system-managed process (e.g., rebuild) has been stopped. |
| Comment | | | | | |
| Reason Codes -- IxlRetCodeParmError (Note that the reason codes are of the form "xxxxYYYY" where "xxxx" is used to contain internal diagnostic information) | | | | | |
| End of Comment | | | | | |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADPARMLIST | "X'00000801" Parameter list could not be accessed |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADPARMLISTALET | "X'00000802" Parameter list ALET is either 1, on the PASN list, or is not valid |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODERESERVEDNOT0 | "X'00000803" Reserved field in parameter list is not 0 |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADVERSION# | "X'00000804" Version number in parameter list is not valid |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADVERSIONNUM | "X'00000804" Version number in parameter list is not valid |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADTCB | "X'00000805" TCB for request is different than TCB from IXLCONN |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODESRBMODE | "X'00000806" Caller is in SRB mode |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODENOTENABLED | "X'00000807" Caller is not enabled |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEMASTERAS | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|----------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEPRIMARYNOTHOME | "X'00000808" Request is not valid from the Master address space |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEBADCONTOKEN | "X'00000809" Primary address space does not equal home address space |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEBADCONNAME | "X'0000080A" The requested service determined that the contoken provided as input was not valid. The contoken is not valid for one of the following reasons: disconnect has occurred, EOT of the connector's task, input contoken is not the contoken returned from IXLCONN, or request issued outside the connector's address space. Additionally, IXLLIST, IXLLOCK, IXLFCOMP, IXLCACHE, IXLRT, and IXLSYNCH will be rejected when the contoken has been invalidated during rebuild. |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEALREADYCALLED | "X'0000080B" TConname or VerConName parameter is not valid |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEAREATOOSMALL | "X'0000080C" IXLSYNCH has already been called from the notify exit |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEBADAREA | "X'0000080D" Provided area is not large enough, even for the header |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEBADAREALET | "X'0000080E" Provided area cannot be accessed |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODERESOURCENOTFOUND | "X'0000080F" ALET of provided area is not usable |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODESYNCHBADSTATE | "X'00000810" Requested resource is not owned, not pending |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEALREADYOWNED | "X'00000811" Requested to IXLSYNCH to state other than Shared, Exclusive, or Free |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEALREADYPENDING | "X'00000812" Requested resource is already owned |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEBADSTATE | "X'00000813" Requested resource is already pending |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEBADNEPL | "X'00000814" Requested state is not free, shared, or exclusive |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODENORTEXISTS | "X'00000815" Input NEPL is not valid |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEBADCONID | "X'00000816" For an IXLLOCK or IXLRT request, no Record data exists |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODENOTLOCKSTR | "X'00000817" An IXLLOCK request specified a Connection identifier that is not associated with the record data entry to be reacquired. |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEBADVECTOROP | "X'00000818" The Connect token specified does not represent a lock structure. |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODENORTENTRY | "X'00000819" Local cache validity operation failed |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODENOLENTRIES | "X'0000081A" Record data element specified was not found to be allocated |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODENOLISTHDRS | "X'0000081B" Number of lock entries was zero on a request to connect to a lock structure with record data, or was a negative number |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEZEROLUSERS | "X'0000081C" Number of list headers specified on connect to a list structure must be greater than zero |

IXLYCON Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|--------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADCOLOCKSTATE | "X'0000081D'" Number of users specified on connect to a lock structure must be greater than zero |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODECONNAME | "X'0000081E'" Change-bit overindication was specified for unlocking a castout lock on either an UNLOCK_CASTOUT request or an UNLOCK_CO_NAME request but the castout lock state indicates write with castout, which is incompatible |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODESTRTYPE | "X'0000081F'" The ConName specified is not unique. There is an active connection to this structure with the specified name. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODESTRSERIAL | "X'00000820'" The structure type specified does not match the type of the allocated structure, or the RNAMELEN attribute specified does not match that of the allocated structure |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADREADTYPE | "X'00000821'" The serialization attribute for a list structure specified via the LOCKENTRIES keyword on connect does not match the currently allocated structure |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODECONNAMEERR | "X'00000822'" An IXLLIST READ_LIST or READ_MULT request specified that either entry or adjunct data was to be returned, but the list structure does not contain the requested component. No data is returned. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEWRONGSTRTYPE | "X'00000823'" The CONNAME specified is not alphanumeric. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODENOENTRY | "X'00000824'" IXLLIST or IXLCACHE request specified for a structure type other than list or cache, respectively. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEINCOMPATSTATE | "X'00000825'" IXLLIST or IXLCACHE request designated a specific structure entry that does not exist, is not registered, or is not registered with the correct vector index number, or designated an event monitor controls object that does not exist. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODECOLOCKHELD | "X'00000826'" An IXLCACHE WRITE_DATA or a WRITE_DATA_LIST request failed because the state of the named data item is incompatible with the request. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODECOUNCHANGED | "X'00000827'" IXLCACHE request to cast-out structure data failed because the cast-out lock is already held. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADUNLOCKVAL | "X'00000828'" IXLCACHE request to cast-out structure data failed because either no data is cached or the data is unchanged. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADUNLOCKVAL | "X'00000829'" IXLCACHE request to unlock one or more cast-out locks encountered an entry to be processed for which the cast-out lock was not held by the invoking connection. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADCOBEG | "X'0000082A'" IXLCACHE request to read cast-out class statistics specified a starting cast-out class that exceeds the maximum defined cast-out class for the structure, or the starting cast-out class exceeds the specified ending cast-out class. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADIDINDEX | "X'0000082B'" IXLLIST, IXLCACHE, or IXLRT request specifying an input list of entry names or identifiers to be processed had an invalid index specified for the first or last element in the input processing list. For a Castout_datalist request, a value in the range of 1 to 8 must be specified, and ENDINDEX must be greater than or equal to STARTINDEX. For a Cross_InvalidList request, a value in the range of 1 to 4096 must be specified, and ENDINDEX must be greater than or equal to STARTINDEX. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADBOUNDARY | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|---------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADSTGCLASS | "X'0000082C" IXLLIST or IXLCACHE request specified a data area that was not boundary aligned according to requirements. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADCOCLASS | "X'0000082D" IXLCACHE request specified a storage class outside the bounds of defined storage classes for the structure. For WRITE_DATALIST requests, the storage class specified in the WOB exceeds the maximum defined storage class for the structure. The data is not written, the index of the write-operation block that failed, and the offset in the data block of the data area for the write-operation block being processed is returned in the ANSAREA. All prior write-operation blocks were processed. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADPCOCLASS | "X'0000082E" IXLCACHE request specified a cast-out class outside the bounds of defined cast-out classes for the structure. For WRITE_DATALIST requests, the cast-out class specified in the WOB exceeds the maximum defined cast-out class for the structure. The data is not written, the index of the write-operation block that failed, and the offset in the data block of the data area for the write-operation block being processed is returned in the ANSAREA. All prior write-operation blocks were processed. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADPARITY | "X'0000082F" An IXLCACHE request specified a parity value that was not valid. For WRITE_DATALIST requests, the parity value specified in the WOB was invalid. The data is not written, the index of the write-operation block that failed, and the offset in the data block of the data area for the write-operation block being processed is returned in the ANSAREA. All prior write-operation blocks were processed. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADNUMNAMES | "X'00000830" IXLCACHE request to process an input reference list had an invalid number of input list elements specified. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADREQTOKEN | "X'00000831" IXLFCOMP received an invalid input asynchronous request token. Reasons: The request token does not match the request token returned on the corresponding IXLLIST or IXLCACHE token request, the request token is for a corresponding IXLLIST or IXLCACHE SyncToken request and the request completed synchronously, the request token was specified on a previous IXLFCOMP request that observed the completion of the request, or the same request token was specified by two different IXLFCOMP requests at the same time. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODENORCLVCTR | "X'00000832" IXLCACHE request to set a reclaiming vector did not specify the vector. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADPGBLATTR | "X'00000833" IXLLIST, IXLCACHE, or IXLRT request specified a pageable storage area is non-pageable. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADNONPGBLATTR | "X'00000834" IXLLIST, IXLCACHE, or IXLRT request specified a non-pageable storage area is pageable. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADDATAADDR | "X'00000835" IXLLIST or IXLCACHE request specified a non-addressable virtual storage data area. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADREALADDR | "X'00000836" IXLLIST or IXLCACHE request specified a non-addressable real storage data area. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADWRITEADJDATA | "X'00000837" IXLLIST or IXLCACHE specified adjunct data was to be written to the structure, but the source virtual storage area for the adjunct data is non-addressable |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADANSAREA | |

IXLYCON Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|-----------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADREQTOKENAREA | "X'00000838" IXLLIST or IXLCACHE specified a non-addressable virtual storage answer area. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADDATAALET | "X'00000839" IXLLIST or IXLCACHE specified a non-addressable virtual storage REQTOKEN area. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADADJALET | "X'0000083A" IXLLIST or IXLCACHE ASYNC=TOKEN request specified a virtual storage data area not addressable from the current primary address space or from the PASN access list. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADANSALET | "X'0000083B" IXLLIST or IXLCACHE ASYNC=TOKEN request specified a virtual storage adjunct area not addressable from the current primary address space or from the PASN access list. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADANSLEN | "X'0000083C" IXLLIST or IXLCACHE ASYNC=TOKEN request specified a virtual storage answer area not addressable from the current primary address space or from the PASN access list. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEMAXLISTKEY | "X'0000083D" IXLLIST or IXLCACHE request specified an answer area length that is insufficient for providing answer area data. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADENTRYRYVERSION | "X'0000083E" An IXLLIST request failed while trying to assign the list key to an entry which was being created or moved. Either the list key or the list key plus the increment value is greater than the maximum list key. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADENTRYLIST | "X'0000083F" IXLLIST or IXLCACHE request failed based on specified entry version number criteria. For WRITE_DATALIST requests, the version number specified in the WOB does not meet the version number comparison criteria specified in the WOB. The data is not written, the version number for the entry, the index of the write-operation block that failed, and the offset in the data block of the data area for the write-operation block being processed is returned in the ANSAREA. All prior write-operation blocks were processed. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADENTRYNAME | "X'00000840" IXLLIST request failed based on specified entry list number criteria. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEPERSISTENTLOCK | "X'00000841" IXLLIST request processing suppressed entry creation processing because the specified entry name is already assigned. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADENTRYID | "X'00000842" An IXLLIST request specifying an unconditional SET or NOTHELD lock operation failed because the lock was held by a connection in the failed persistent state. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADID | "X'00000843" IXLLIST request specified an entry identifier or name in a list of identifiers or names to be processed for a non-existent entry. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODENONAMES | "X'00000844" IXLOCK obtain request to reacquire record data specified an element identifier that does not exist |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADLOCKINDEX | "X'00000845" IXLLIST request specified an input list of entry names to be processed but the structure does not support entry names. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADLISTNUMBER | "X'00000846" IXLLIST request specified a lock index that exceeds the size of the lock table for the structure. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADLISTNUMBER | "X'00000847" IXLLIST request specified a list number that exceeds the number of lists defined for the structure. |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|------------------------|-----|------------|-----|---------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADRESET | "X'00000848" IXLLIST request specified a locking operation for a lock table entry not held by the invoking connection |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADRESTOKEN | "X'00000849" An IXLLIST, IXLCACHE, or IXLRT request specified a restart token that is not valid. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODENOKEYS | "X'0000084A" The structure does not support the use of entry keys, and the request either was a request type that requires the structure to support entry keys, or designated a sublist, list entry, or list position by list number and entry key. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODENOLOCKS | "X'0000084B" IXLLIST request attempted a locking operation for a structure that does not support a lock table. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODENOSAFAUTH | "X'0000084C" User does not have proper SAF authorization |
| Comment | | | | | |
| '0000084D'X - reserved | | | | | |
| End of Comment | | | | | |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADMOVETOLIST | "X'0000084E" IXLLIST request specified a list number for MOVETOLIST that exceeds the number of lists defined for the structure. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODENOSUSPENDISABLE | "X'00000851" The request failed because the disabled caller cannot be suspended |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODENOLISTVECTOR | "X'00000852" IXLLIST request failed because no local vector for monitoring list headers and/or event queues exists for this connection |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEINVLISTINDEX | "X'00000853" An invalid vector index was specified on a MONITOR_LIST or MONITOR_EVENTQ request with ACTION=START specified. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADLOCKCOMP | "X'00000854" IXLLIST request specified a LOCKCOMP value which is not valid |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEENTRIESCHANGED | "X'00000855" The record table entry that was represented by the FASTRESTOKEN was deleted or reacquired between IXLRT REQUEST=READBYCONN FASTPATH=YES requests. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEREBUILDNUMUSER | "X'00000856" The value specified for NUMUSERS is less than the attribute for the original structure. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADUSEREVENT | "X'00000858" The value provided for the USEREVENT and NEXTUSEREVENT keywords must be nonzero. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADLISTAUTH | "X'00000859" IXLLIST request failed due to the list authority comparison |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODENOTDISABLED | "X'0000085A" IXLOCK request specified DISABLED=YES but caller is not disabled |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODERECORDLISTATTR | "X'0000085B" The record list attribute of the structure is not consistent with the record list attribute of the original structure. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEINVALIDLISTATTR | "X'0000085C" List structure must be allocated with one of the following: lock entries, data elements, adjunct entries. None were specified. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEINVALIDSTGCLASS | |

IXLYCON Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|----------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEINVALIDCOCLASS | "X'0000085D" NUMSTGCLASS cannot be zero. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEINVALIDVECTORLEN | "X'0000085E" NUMCOCLASS cannot be zero. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEDIRRATIO | "X'0000085F" VECTORLEN cannot be zero for a cache structure. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEENTRYRATIO | "X'00000860" DIRRATIO or DIRENTRYCOUNT cannot be zero. Directory entries are required for a cache structure. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEMAXELEMNUM | "X'00000861" ENTRYRATIO or ENTRYCOUNT cannot be zero. Entries are required for a list structure with data. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODETASKTERM | "X'00000862" MAXELEMNUM must be greater than or equal to ELEMENTRATIO divided by ENTRYRATIO when allocating a list structure. MAXELEMNUM must be greater than or equal to ELEMENTRATIO divided by DIRRATIO when allocating a cache structure. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADBUFSIZE | "X'00000863" Request not allowed from resource manager. Requesting task is going through termination. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADBUFSPEC | "X'00000864" The buffer specified on an IXLLIST or IXLCACHE request is not large enough to contain the data being read. No data is returned. For CASTOUT_DATA LIST requests, the specified buffer area is not large enough to contain the data area for the entry in the CASTOUTLIST specified by STARTINDEX. The number of elements in the desired entry is returned in the ANSAREA. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADBUFKEY | "X'00000865" The buffer specification for an IXLLIST or IXLCACHE request is in error. Refer to the BUFFER or BUFLIST specification requirements. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADBUFLIST | "X'00000866" The buffer storage key for an IXLLIST or IXLCACHE request is incorrect. For requests which write CF data the data cannot be fetched. For requests which read CF data the data cannot be stored. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADRECLVCTR | "X'00000867" The storage area specified by BUFLIST is not addressable. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADSTGSTATS | "X'00000868" The storage area specified by RECLVCTR is not addressable. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADELEMNUM | "X'00000869" The storage area specified by STGSTATS is not addressable. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEELEMNUM | "X'0000086A" The value specified for ElemNum on a IXLLIST or IXLCACHE request is not valid FOR WRITE_DATA LIST requests, the ElemNum specified in the WOB is not valid. The data is not written, the index of the write-operation block that failed, and the offset of data block of the data area for the write-operation block being processed is returned in the ANSAREA. All prior write-operation blocks were processed. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEELEMNCRN | "X'0000086B" ELEMNCRN must be nonzero and a power of two |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODESTRSIZE | "X'0000086C" STRSIZE cannot be larger than the maximum structure size. Maximum structure size is the size specified by the installation in the CFRM active policy. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEINVALIDCFLEVEL | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|------------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEREBUILDVECTORLEN | "X'0000086F" Request rejected because ALLOWALTER=YES was specified and a CFLEVEL of zero was either specified or defaulted to. A CFLEVEL of at least one is required when ALLOWALTER=YES is specified. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEMAXELEMNUMELEMCHAR | "X'00000870" The VECTORLEN attribute of the structure is not consistent with the VECTORLEN attribute of the original structure |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEMINENTRY | "X'00000871" The values specified in MAXELEMNUM and either ELEMCHAR or ELEMINCRNUM would result in entries of size greater than 64K. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEMINELEMENT | "X'00000872" The value specified in MINENTRY keyword is not valid. A value in the range of 0 to 100 must be specified. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADRNLINDEX | "X'00000873" The value specified in MINELEMENT keyword is not valid. A value in the range of 0 to 100 must be specified. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADWDLINDEX | "X'00000874" The value specified for either STARTINDEX or ENDINDEX is not valid. A value in the range of 1 to 32 must be specified, and ENDINDEX must be greater than or equal to STARTINDEX. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADNSBAREA | "X'00000875" The value specified for either STARTINDEX or ENDINDEX is not valid. For a Write_datalist request, when BUFFER is specified a value in the range of 1 to 256 must be specified. When BUFLIST is specified a value in the range of 1 to 16 must be specified. ENDINDEX must be greater than or equal to STARTINDEX. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADREQNUM | "X'00000876" The storage area specified by NSBAREA is not addressable. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADLRBTYPE | "X'00000877" The REQNUM value specified on an IXLLOCK REQUEST(PROCESSMULT) invocation is not valid. The value must be between 1 and 128 inclusive. Processing is halted with no entries in the REQBUFFER having been processed. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADREQBUFFER | "X'00000878" A Lock Request Block that was input on an IXLLOCK REQUEST(PROCESSMULT) has a value in the LRB_XType field that is not supported by this level of the service routine. Processing of the LRBs in the REQBUFFER is halted. The number of LRBs that were successfully processed prior to the error may be obtained via the REQPROC keyword. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADMODEVAL | "X'00000879" XES encountered an error while attempting to access storage in the REQBUFFER. The number of LRBs that were successfully processed prior to the error may be obtained via the REQPROC keyword. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADRNAMELEN | "X'0000087A" The MODEVAL value specified on an IXLLOCK invocation is not valid for this request type. See IXLMODE... for the list of valid values. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODENOVARRNAME | "X'0000087B" The RNAMELEN specified on an IXLLOCK invocation is not valid. Valid lengths are 1 to 300. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODENOVARRNAME | "X'0000087C" An IXLLOCK request which specified a variable length resource name is not valid because the variable length name feature is not in effect for the lock structure represented by the input contoken. Please consult the RNAMELEN keyword on the IXLCONN macro for information on allocating a lock structure with this attribute. |

IXLYCON Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---|-----|------------|-----|-------------------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADWORBAREA | "X'0000087D" The storage area specified by WORBAREA is not addressable. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADMOSVECTOR | "X'00000880" The storage area specified by MOSVECTOR is not addressable. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADCFLEVEL | "X'00000881" Request parameters are not appropriate for specified level of coupling facility. |
| <div> <div>Comment</div> <div> <p>Sub-reason code constants for reason code 0881, IxlrSnCodeBadCfLevel. Note that the sub-reason code is placed into ConaDiag2 and into the symptom record as diagnostic information.</p> </div> <div>End of Comment</div> </div> | | | | | |
| | |1 | | IXLYCON_KEMCSTGPCTBADCFLEVEL | "X'00000001" |
| | |1. | | IXLYCON_KUDFORDERBADCFLEVEL | "X'00000002" |
| | |11 | | IXLYCON_KNAMECLASSMASKBADCFLEVEL | "X'00000003" |
| | |1.. | | IXLYCON_KENTRYIDTYPEUSERBADCFLEVEL | "X'00000004" |
| | |1.1 | | IXLYCON_KKEYTYPESECONDARYBADCFLEVEL | "X'00000005" |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADREFOPTION | "X'00000882" Request parameters are not appropriate for specified REFOPTION. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADEMCSTGPCT | "X'00000883" Value specified for EmcStgPct is out of range. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADADMINEMC | "X'00000884" Value specified for MinEMC is out of range. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADAMDLEVEL | "X'00000885" Value specified for AmdaLevel is not valid |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADREQUEST | "X'00000886" Request type is not valid |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADEXTRESTOKEN | "X'00000887" An IXLLIST, IXLCACHE, or IXLRT request specified an extended restart token that is not valid. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADSTRUCTURESIZE | "X'00000888" Structure size greater than maximum structure size, or smaller than marginal structure size |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODECALCULATIONOVERFLOW | "X'00000889" Structure size calculation encountered an overflow condition |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADASCMODE | "X'0000088A" Caller's ASC mode does not match the requirements of the invoked service. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADELEMCHARORINCRNUM | "X'0000088B" Caller's ElemChar or ElemIncrNum specification exceeds the maximum data size of the input coupling facility. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODECOMPUTEREJECTED | "X'0000088C" An IXLCSP request could not be processed due to invalid input. The CSPA_DiagnosticCode field identifies the bad input. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADENTRYIDTYPE | "X'0000088D" Request Rejected. EntryIdType requested is not consistent with the EntryIdType of the allocated structure. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEINCONSISTENTPARM | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|--|-----|------------|-----|------------------------------------|--|
| Dec | Hex | | | | |
| | | | | | "X'0000088E" Request Rejected. A keyword specification was made that also requires one or more other keywords to be specified. |
| Comment | | | | | |
| Sub-reason code constants for reason code 088E, IxLRsnCodeInconsistentParms. Note that the sub-reason code is placed into ConaDiag2 and into the symptom record as diagnostic information. | | | | | |
| End of Comment | | | | | |
| | |1 | | IXLYCON_KKEYTYPESECONDARYNOADJUNCT | "X'00000001" |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEBADENTRYIDVALUE | "X'00000890" The specified User entry Id is zero. |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEBADKEYRANGEEND | "X'00000891" The specified KeyRangeEnd value is not valid |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEBADKRNOTEMPTY | "X'00000892" The specified KRNotEmpty value is not valid. |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEBADLISTNOTEMPTY | "X'00000893" The specified ListNotEmpty value is not valid. |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEBADKEYCOMPARE | "X'00000894" Request failed based on specified key comparison |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEBADLISTKEYAREA | "X'00000895" The storage area specified by LISTKEYAREA is not addressable. |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEDUPLICATEENTRYID | "X'00000896" The specified EntryId already exists in the specified structure. |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEBADKEYTYPE | "X'00000897" The specified KEYTYPE value is not valid for the specified structure |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEBADKEYSCANTYPE | "X'00000898" The specified KEYSKANTYPE value is not valid for the specified structure |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEBADSKYCOMPARE | "X'00000899" The specified SKEYCOMPARE value is not valid for the specified structure |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEBADSKYREQTYPE | "X'0000089A" The specified SKEYREQTYPE value is not valid for the specified structure |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEBADKEYCOMPARETYP | "X'0000089B" The specified KEYCOMPARE value is not valid for the specified structure |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEBADMOVETOKEY | "X'0000089C" The specified MOVETOKEY value is not valid for the specified structure |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEBADMOVETOSKEY | "X'0000089D" The specified MOVETOSKEY value is not valid for the specified structure |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEBADMINCFLEVEL | "X'0000089E" The specified MINCFLEVEL value is greater than the specified CFLEVEL value |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEBADMRDLEVEL | "X'000008A8" An invalid value for MRDLEVEL was specified. |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEBADSSUSPENDOPTION | "X'000008A9" Suspend=Fail is not a valid option for lock or serialized list structures. |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEELEMNUMMISMATCH | "X'000008AA" For WRITE_DATALIST requests, the specified data area size in the WOB does not match the actual size of the corresponding data area in the data block. |

IXLYCON Map

| Offsets | | | | | |
|---|-----|------------|-----|-------------------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADDATAOFFSET | "X'000008AB" On a WRITE_DATALIST request, an invalid DATAOFFSET was speciied. No data is returned. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEBADGETCOLOCK | "X'000008AC" On a WRITE_DATALIST request, the change control indicator was set and the get castout lock control indicator was also set in the WOB. |
| Comment | | | | | |
| Reason Codes -- IxlRetCodeEnvError (Note that the reason codes are of the form "xxxxYYYY" where "xxxx" is used to contain internal diagnostic information) | | | | | |
| End of Comment | | | | | |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODENOMORECONNS | "X'00000C02" No further connections available to the specified structure. |
| Comment | | | | | |
| '00000C03'X - reserved, do not use | | | | | |
| End of Comment | | | | | |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEJOINFAILED | "X'00000C04" Join Failed. The return code and reason code from IXCJOIN can be found in the connect answer area. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODESTRNOTINPOLICY | "X'00000C05" Requested structure is not in the CFRM active policy |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODENOCOONN | "X'00000C06" This system does not have connectivity to the coupling facility containing the structure. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODECFNOTINPOLICY | "X'00000C07" Requested coupling facility is not in the CFRM active policy |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODENOFAC | "X'00000C08" Structure allocation failed because there was not suitable coupling facility to allocate the requested structure. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODECONNPREVENTED | "X'00000C09" Connections to the requested structure are being prevented at this time. See CONASTRUCTURESMDUPESTAB flag for additional structure status. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODESTRNOTALLOCATED | "X'00000C0A" The structure specified is not allocated |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODERTFULL | "X'00000C0B" Record portion of Lock structure is full |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODENOCOONNDUPLEXNEWSTR | "X'00000C0C" This system does not have connectivity to the coupling facility containing the duplexed new structure. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODESUPERSEDED | "X'00000C0D" Request was superseded |
| Comment | | | | | |
| Reason 00000C0E not used | | | | | |
| End of Comment | | | | | |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEDENIED | "X'00000C0F" Request was denied |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---|-----|------------|-----|---------------------------|---|
| Dec | Hex | | | | |
| Comment | | | | | |
| Reason 00000C10 not used | | | | | |
| End of Comment | | | | | |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEDEFINE | "X'00000C11" The local vector requested on Connect could not be defined. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODESDNOTCREATED | "X'00000C12" Could not create a data space for storage management. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEREQPURGED | "X'00000C13" Prior to completion of the request, the request was purged. Reasons: The connector failed, the connector disconnected, the request was purged by IXLPURGE, or requests were purged when the connector provided an IXLEERSP response for the Rebuild Stop or Rebuild Cleanup event. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODESTATUSUNKNOWN | "X'00000C14" The IXLLIST or IXLCACHE request has completed, but the final disposition of the request cannot be determined. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEMAXCONNECTAS | "X'00000C15" Maximum number of serialized connections for this address space (Limit 64). |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEPASNEXCEEDED | "X'00000C16" Error adding to the PASN access list. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODESTRFULL | "X'00000C17" IXLLIST or IXLCACHE request could not allocate a structure entry or an event monitor controls object as required by the request -- the structure is full |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODELISTFULL | "X'00000C18" IXLLIST request could not create a new entry on a list because the list is full. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODETIMERNOTSET | "X'00000C19" XES DIE could not be established for this system |
| Comment | | | | | |
| '00000C20'X - not used '00000C21'X - not used | | | | | |
| End of Comment | | | | | |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODECONNOTINPOL | "X'00000C23" Connection failed because information about the previous instance of this connection (for reconnect) could not be rebuilt into the policy. A CFRM couple data set with more CONNECT records is required. |
| Comment | | | | | |
| Reason 00000C24 not used | | | | | |
| End of Comment | | | | | |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODESTRFAILURE | "X'00000C25" Structure failure occurred. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODECONACTIVE | "X'00000C26" Connection identified by the connect token is still active. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODERSPNOTREC | "X'00000C27" All surviving connections have not responded via IXLEERSP for the requested connection. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODESTILLACTIVECONN | |

IXLYCON Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|----------------------------------|-----|------------|-----|-------------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEXESNOTACTIVE | "X'00000C28" Structure cannot be deleted because there are still active or failed persistent connections. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODENOSUCHCONNECTION | "X'00000C29" The CFRM function is not active or not available. "X'00000C2A" Connection does not exist |
| Comment | | | | | |
| Unused '00000C2B'X - '00000C2F'X | | | | | |
| End of Comment | | | | | |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEDUMPINPROGRESS | "X'00000C30" Dump in progress |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODECONNPENDINGRECONCIL | "X'00000C33" Structure cannot be deleted because there are connections to the structure in the coupling facility which are pending reconciliation into the CFRM active policy |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODENOACTIVECONNS | "X'00000C35" Request rejected because there are no active connections. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODESTOPINPROGRESS | "X'00000C36" The IXLREBLD START or STARTDUPLEX request is rejected because stop processing was in progress for the same structure name. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEUSEREVENTMISMATCH | "X'00000C37" The user event point specified did not match the currently defined sync point. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEUSERMISMATCH | "X'00000C38" A confirmation was not expected from the responding connector. |
| Comment | | | | | |
| Unused 00000C3A | | | | | |
| End of Comment | | | | | |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEDUMPSEHLED | "X'00000C3B" The request failed because dumping serialization is held |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEREBUILDCONNECT | "X'00000C3C" The rebuild connect request was not successful because original connection failed. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODENOTREBUILDING | "X'00000C3D" The request is rejected because a structure rebuild was not in progress. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEINCLEANUP | "X'00000C3E" The request is rejected because the phase of processing was CLEANUP. The process cannot be stopped. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODECONNNOTDEFINED | "X'00000C3F" The responding connection is not defined. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODECONNNOTACTIVE | "X'00000C40" The responding connection is not active. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEUNEXPECTEDRESPONSE | "X'00000C41" A response was not expected from the responding connection. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEINVALIDEVENT | "X'00000C42" Response not expected for the specified event. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEREBUILDCONNEXISTS | "X'00000C44" Rebuild Connect already exists for the specified conname. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEREBUILDDBADCONN | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|---------------------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEREBUILDCOMPLETE | "X'00000C45" The issuer of IXLCONN REBUILD is not a connector in the address space the request was issued from or the connector is not active. |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEREBUILDCONNPASE | "X'00000C46" An IXLREBLD COMPLETE request is not expected. |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODESUBJCONNNOTDEFINED | "X'00000C47" Rebuild connect (IXLCONN with the REBUILD keyword) was requested during the wrong phase of the rebuild process. |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEREBUILDDEERSPIGNORED | "X'00000C48" Subject connector is not defined. |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEREBUILDNOTPERMITTED | "X'00000C49" RebuildConnectFailure response received for a connection which is no longer active. The original connection has terminated. |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEEUSYNCEVENTNOTSET | "X'00000C4A" ALLOWREBLD=NO specified by at least one active connection. |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODERESOURCENOLONGEROWNED | "X'00000C4B" IXLUSYNC REQUEST=SET rejected. The new user event was not set because all confirmations have not yet been received for the current event or all connectors have not been notified of the previously completed user event. |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODENOSTRDUMP | "X'00000C4C" An IXLLOCK ALTER or UNLOCK request for a resource that is no longer owned. Request is denied. |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEREBUILDCONNECTSTOP | "X'00000C4D" Request is not valid because no structure dump exists. |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEEUSYNCSNOEVENTSET | "X'00000C4E" Rebuild Connect request not successful because rebuild stop occurred. |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEREBUILDCONNECTNOPREF | "X'00000C4F" IXLUSYNC REQUEST=CONFIRM or IXLUSYNC REQUEST=CONFIRMSET rejected because no user event set. |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEREBUILDINPROGRESS | "X'00000C50" Rebuild Connect request not successful because there where no coupling facilities in the preference list and there was no pending policy. |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEALLOWREBLD | "X'00000C51" Request rejected because a structure rebuild was in progress for the structure. While a structure rebuild is in progress, requests to alter the structure or to force deletion of connections or of the structure are not allowed. |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODECFLEVEL | "X'00000C52" Request rejected because the user either specified ALLOWREBLD=NO and a rebuild was in progress or specified ALLOWREBLD=YES and ALLOWDUPREBLD=NO and a duplexing rebuild was in progress. |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODENOALTERCF | "X'00000C53" Request rejected because a the connection specified a CFLEVEL that is greater than the maximum CFLEVEL supported by the release of MVS on which the IXLCONN was issued. The maximum CFLEVEL is returned to the connector in the IXLYCONA. |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEALLOWALTER | "X'00000C60" Request rejected because the structure is allocated in a coupling facility that does not support alter. CFLEVEL equal zero. |

IXLYCON Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|--------------------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEALTERRATIOCHG | "X'00000C61" Request rejected because at least one active, failing, or failed-persistent connection specified ALLOWALTER=NO on IXLCONN. If connections exist that could not be reconciled into the policy because the policy was too small, then the request is rejected. |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEALTERNOTINPROG | "X'00000C62" Request rejected because at least one active, failing, or failed-persistent connection specified RATIO=NO on IXLCONN. |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODESTRALTERNOTALLOW | "X'00000C63" Request rejected because alter is not in progress for the structure. |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODESTRALTERNOTALLOW | "X'00000C64" Request rejected because alter is in progress and the connection specified ALLOWALTER=NO on IXLCONN. |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODESTRALTERRESTRICT | "X'00000C65" Request rejected because alter is in progress and the connection specified thresholds that are more restrictive than the current composite for existing connections. |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEALTERSTOPINPROG | "X'00000C66" Request rejected because alter stop was requested and an alter stop is already in progress. |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEREBLDNOOTHER | "X'00000C67" Request rejected for one of the following reasons: LOCATION OTHER was either specified or defaulted to and no other suitable coupling facility exists in the preference list or a duplexing rebuild initiated by MVS after the previous duplexing rebuild was stopped by the operator avoids the current coupling facility and the coupling facility containing the previous structure instance and no other coupling facility exists in the preference list. |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEBADREQCFLEVEL | "X'00000C68" The request type is not permitted for the level of coupling facility in which the target structure is allocated. |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODENODELAY | "X'00000C69" An IXLLOCK request in which the user specified mode(SYNCFail) experienced a delay. The request is cancelled. |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEREBLDNOBETTERCONN | "X'00000C6A" No coupling facility in the preference list provided better connectivity than the current facility for this LOSSCONN rebuild. The rebuild was not started to avoid a further degradation in connectivity for the application. This condition may be overridden with the LESSCONNACTION option. |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEREBLDINSUFFCONN | "X'00000C6B" No coupling facility in the preference list provided better or equivalent connectivity than the current facility. The rebuild was not started to avoid a degradation in connectivity for the application. This condition may be overridden with the LESSCONNACTION option. This may also occur during a duplexing rebuild when another coupling facility in the preference list is not available to contain the new duplex structure instance. In this case, the LESSCONNACTION keyword does not apply, and another facility must be made available to the sysplex to allow the duplexing rebuild succeed. This may also occur when an IXLREBLD REQUEST=START is attempted which needs system-managed processing (e.g., rebuild). In the system-managed process case, the LESSCONNACTION keyword does not apply, and another facility must be made available to the sysplex to allow the system-managed process to succeed. |
| 0 | (0) | BITSTRING | 0 | IXLRNSCODEREBLDCFNAMEXCFSIGSTR | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|----------------------------------|-----|------------|-----|----------------------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODESUBJCONNNOTFAILING | "X'00000C6C" A rebuild of an XCF Signalling structure is not permitted via the CFNAME keyword on either an IXLREBLD START request or a SETXCF START,REBUILD command. |
| | | | | | "X'00000C6D" An IXLEERSP Proxy Response or an IXLUSYNC Proxy Response was attempted for connector which is not marked as failing. |
| Comment | | | | | |
| Unused '00000C6E'X | | | | | |
| End of Comment | | | | | |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEDUPLEXNOTPERMITTED | "X'00000C6F" Duplexing not permitted due to connection or policy specification, there are connections pending reconciliation into the CFRM active policy or there is a pending policy change for the structure. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEWRONGREBUILDTYPE | "X'00000C70" IXLREBLD STOP requested and a duplexing rebuild is in progress or IXLREBLD STOPDUPLEX requested and a non-duplexing rebuild is in progress. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODENOTDUPLEXESTAB | "X'00000C71" An IXLREBLD STOPDUPLEX KEEP=NEW to switch to the new structure was requested and the process has not reached the duplex established phase. A stop to switch to the new structure cannot be accepted until the duplexing rebuild reaches the duplex established phase. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEDUPLEXCOMPLETE | "X'00000C72" An IXLREBLD DUPLEXCOMPLETE request is not expected. Either switch is not in progress or the connector has not established duplexing yet. If the latter, the connector must either establish duplexing or disconnect, allowing switch processing to proceed. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODESTRFAILED | "X'00000C73" The request is rejected because the structure has failed. A request to initiate a duplexing rebuild is rejected if the structure has failed. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODESTOPPINGDIRECTION | "X'00000C74" The IXLREBLD STOPDUPLEX request is rejected because the duplexing rebuild was already stopping in the other direction. Either KEEP=OLD was requested and duplexing rebuild was switching forward to the new structure due to prior request with KEEP=NEW or KEEP=NEW was requested and duplexing rebuild was stopping to fall back to the old structure due to prior request with KEEP=OLD. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEDUPLEXNOTFEASIBLE | "X'00000C75" The IXLREBLD STARTDUPLEX request was not processed because XES determined that allocation of the rebuild new structure would not be feasible |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEDUPALTER | "X'00000C76" Request rejected because alter stop was requested and a stop of an alter for a structure in a system-managed duplexing rebuild is not allowed |
| Comment | | | | | |
| Unused '00000C77'X - '00000C7F'X | | | | | |
| End of Comment | | | | | |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEREBUILDPOPCFINPROGRESS | "X'00000C80" A request to start a POPULATECF rebuild was attempted while a previous POPULATECF request was already in progress. The request is not processed. |

IXLYCON Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|----------------------------------|-----|------------|-----|--------------------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEREBUILDPOPCFNOTINPROGRESS | "X'00000C81" A request to stop a POPULATECF rebuild was attempted. However, there is no POPULATECF rebuild in progress for the specified coupling facility. The request is not processed. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEREBUILDPOPCFNOSTRUCTS | "X'00000C83" A request to start a POPULATECF rebuild was attempted. No structures were selected for the request. The request is not processed. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEREBUILDPOPCFFAILED | "X'00000C84" A request to start a POPULATECF rebuild was attempted. The specified coupling facility has failed. The request is not processed. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEREBUILDPOPCFINCLEANUP | "X'00000C85" A request to start a POPULATECF rebuild was attempted. The specified coupling facility is in clean up processing. The request is not processed. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEREBUILDPOPCFDELETEPENDING | "X'00000C86" A request to start a POPULATECF rebuild was attempted. The specified coupling facility is in being deleted from the CFRM active policy. The request is not processed. |
| | | | | | Comment |
| Unused '00000C87'X - '00000C90'X | | | | | |
| | | | | | End of Comment |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODESYSMGDRESPONSENOTPERMITTED | "X'00000C91" The structure is in system-managed processing (e.g., rebuild). A response is not permitted from the connection. The request is not processed. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODESYSMGDNOTSUPPORTEDSTR | "X'00000C92" A request to initiate a structure rebuild was attempted which needed system-managed processing (e.g., rebuild). The system-managed process cannot be initiated because the structure was not allocated in a coupling facility at the proper CFlevel by a system supporting system-managed processing or has connections that have not been reconciled into the CFRM active policy or structure cleanup is in progress. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODESYSMGDSTRPREFLIST | "X'00000C93" A request to initiate a structure rebuild was attempted which needed system-managed processing (e.g., rebuild). The system-managed process cannot be initiated because the preference list for the structure is either empty or contains no other coupling facility at the proper CFlevel or the only capable coupling facility contains the structure and no CFRM policy change is pending. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODESYSMGDNOTSUPPORTEDCONN | "X'00000C94" A request to initiate a structure rebuild was attempted which needed system-managed processing (e.g., rebuild). The system-managed process cannot be initiated either because there is at least one active connection and all connections did not specify ALLOWAUTO=YES on IXLCONN or because the structure only has failed-persistent connections and all connections did not specify ALLOWAUTO=YES on IXLCONN. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODESYSMGDBADSTARTREASON | "X'00000C95" An IXLREBLD REQUEST=START invocation would have resulted in system-managed rebuild. The request specified a STARTREASON of LOSSCONN or STRFAILURE, which are not valid reasons for starting the resulting process. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODESYSMGDLOSSCONN | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|--------------------------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODESYSMGDCOMPLETENOTPERMITTED | "X'00000C96" A request to initiate a structure rebuild was attempted which needed system-managed processing (e.g., rebuild). The system-managed process cannot be initiated because an active or failing connector does not have connectivity to the target structure. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODECFNOTACCESSIBLE | "X'00000C97" An IXLREBLD REQUEST=COMPLETE or REQUEST=DUPLEXCOMPLETE was issued for a structure which is undergoing a system-managed process (e.g., rebuild). The request is not processed. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODESYSMGDNOTSUPPORTEDCDS | "X'00000C98" The system does not have connectivity to the requested coupling facility. Possible causes include: The facility is not described by the active CFRM policy, there is no CFRM couple data set, the system from which the request is issued does not have connectivity to the facility, or the facility has failed. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEINSUFFCFLEVELUSER | "X'00000C99" A request to initiate a structure rebuild was attempted which needed system-managed processing (e.g., rebuild). The system-managed process cannot be initiated because the CFRM couple data set was not formatted at the minimum required level. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEINNOVCFLEVELUSER | "X'00000C9A" An IXLCONN request specified a minimum CFLEVEL which is greater than the level of the coupling facility in which the target structure is allocated. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODESYSMGDNOHISTORY | "X'00000C9B" A request to initiate a duplexing rebuild was attempted which needed system-managed processing. The system-managed duplexing rebuild cannot be initiated because there are no connections to the structure and the structure has not previously been duplexed using system-managed processing. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEDUPLEXFAILURE | "X'00000C9C" Reserved for IBM use. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEQUIESCEDSUSPENDFAIL | "X'00000CA0" The request is failed because the structure is quiesced for a system-managed process (but not a stop or switch to fall out of a system-managed duplexing rebuild), and SUSPEND=FAIL is specified |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEXESFAIL | "X'0000100A" The IXLMG support encountered a software control block failure for which processing could not continue |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODESYSMGDXCFERROR | "X'0000100B" An IXLREBLD REQUEST=START was attempted which needed system-managed processing (e.g., rebuild). The system-managed process cannot be initiated because the necessary CFRM active policy data area could not be obtained. The request is not processed. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODENOTAVAILABLE | "X'FFFFFFFF" XES functions are not available. This can be because the hardware necessary to provide XES functions is not present. |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODENOTAVAILABLE16 | "X'0000FFFF" XES functions are not available at all. This can be because the hardware necessary to provide XES function is not present. |

Comment

Return codes for use within Contention Exit

End of Comment

IXLYCON Map

| Offsets | | | | | |
|---------|-----|------------|-----|--------------------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | X'0' | 0 | IXLRCCONTEXTCONTINUEMANAGEMENT | "0" Continue normal management. |
| 0 | (0) | X'4' | 0 | IXLRCCONTEXTSTOPMANAGEMENT | "4" No further calls to the contention exit should be made unless contention re-occurs. This would be used when notifications were requested, but all contention has ceased. |
| 0 | (0) | X'8' | 0 | IXLRCCONTEXTCALLAGAIN | "8" Indicates that the contention exit should be invoked again with the resource request queue updated to reflect actions (Grants, etc.) that were taken during the previous invocation of the exit. This should be used when the exit has a need to view the updated request queue and cannot wait for the normal means of doing so (i.e. arrival of a new request) |
| 0 | (0) | X'C' | 0 | IXLRCCONTEXTREBUILDDEFER | "12" Indicates that XES should not invoke the contention exit again for this resource on behalf of this instance of the structure until rebuild processing has completed. If this exit is executing on behalf of the new structure during the rebuild process (i.e. CeplRebuild=ON) then the exit will be restarted upon completion of rebuild processing (i.e. when this connector responds to the rebuild cleanup event by issuing IXLEERSP EVENT=REBUILDCLANUP). If this exit is executing on behalf the original structure during the rebuild process (CeplRebuildOrig=ON) then the exit will only be restarted if the rebuild is subsequently stopped. Specifically, it will be restarted after this connector confirms the rebuild stop by successfully issuing IXLEERSP EVENT=REBUILDSTOP. Note, any actions requested by the contention exit through manipulation of the action flags in the CEPL entries will be ignored when this return code is specified. Additionally, if a contention exit returns to XES with this return code during a period when rebuild is not in progress (i.e. CeplRebuild =OFF AND CeplRebuildOrig=OFF) then XES will issue an abend and terminate the connection |

Comment

Return codes for use within Event Exit

End of Comment

| | | | | | |
|---|-----|------|---|-----------------------------|---|
| 0 | (0) | X'0' | 0 | IXLRCEVENTEXITRESPONSE | "0" This return code indicates that the connector has confirmed an event presented to the event exit. |
| 0 | (0) | X'1' | 0 | IXLRCEVENTEXITRELEASECONN | "1" This return code indicates that the connector has confirmed a connection failed event or an existing connection event (failed persistent connection only) and has requested that the failed persistent connection be released. Setting this return code is equal to invoking the IXLEERSP service with the RELEASECONN=YES keyword. |
| 0 | (0) | X'8' | 0 | IXLRCEVENTEXITLATERRESPONSE | "8" The Connector will issue IXLEERSP later. |

Comment

Structure Types - External

End of Comment

| | | | |
|------|-------|-----------------|-----------------------------------|
| .... | ..11 | IXLSTRTYPELIST | "X'03" List Structure - External |
| .... | ..1.. | IXLSTRTYPECACHE | "X'04" Cache Structure - External |

| Offsets | | | | | |
|--|-----|------------|-----|-----------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| Comment | | | | | |
| Mask for isolating the non-component-diagnostic portion of a reason code, to be ANDed with the return code provided by XES before comparing it to the BIT(32) constants declared in IXLYCON. | | | | | |
| End of Comment | | | | | |
| 0 | (0) | BITSTRING | 0 | IXLRSNCODEMASK | "X'0000FFFF" Reason code mask |
| Comment | | | | | |
| IXLUSYNC completion code set by XES when a connector fails or disconnects when a response to an outstanding user sync point is owed. | | | | | |
| End of Comment | | | | | |
| 0 | (0) | BITSTRING | 0 | IXLUSYNCFWAILEDUSERCOMPCODE | "X'0000FFFF" IXLUSYNC completion code set by XES for failed user |
| Comment | | | | | |
| CFLEVEL constants | | | | | |
| End of Comment | | | | | |
| 0 | (0) | X'0' | 0 | IXLCFLEVEL0 | "0" CFLEVEL 0 |
| 0 | (0) | X'1' | 0 | IXLCFLEVEL1 | "1" CFLEVEL 1 |
| 0 | (0) | X'2' | 0 | IXLCFLEVEL2 | "2" CFLEVEL 2 |
| 0 | (0) | X'3' | 0 | IXLCFLEVEL3 | "3" CFLEVEL 3 |
| 0 | (0) | X'4' | 0 | IXLCFLEVEL4 | "4" CFLEVEL 4 |
| 0 | (0) | X'5' | 0 | IXLCFLEVEL5 | "5" CFLEVEL 5 |
| 0 | (0) | X'6' | 0 | IXLCFLEVEL6 | "6" CFLEVEL 6 |
| 0 | (0) | X'7' | 0 | IXLCFLEVEL7 | "7" CFLEVEL 7 |
| 0 | (0) | X'8' | 0 | IXLCFLEVEL8 | "8" CFLEVEL 8 |
| 0 | (0) | X'9' | 0 | IXLCFLEVEL9 | "9" CFLEVEL 9 |
| 0 | (0) | X'A' | 0 | IXLCFLEVEL10 | "10" CFLEVEL 10 |
| 0 | (0) | X'B' | 0 | IXLCFLEVEL11 | "11" CFLEVEL 11 |
| 0 | (0) | X'C' | 0 | IXLCFLEVEL12 | "12" CFLEVEL 12 |

| Offsets | | | | | |
|---------|-----|------------|-----|----------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | IXLSDWACOMU | |
| 0 | (0) | CHARACTER | 5 | IXLSDWACOMUCOMPID | Component ID 'SCIXL' |
| 5 | (5) | BITSTRING | 1 | IXLSDWACOMUFLAGS1 | |
| | | | (0) | | First flags byte |
| | | 1... .. | | IXLSDWACOMUREQASYNC | "X'80" The IXLLIST/IXLCACHE request is being processed asynchronously. The specified notification method will be used when the request completes. |
| | | .1... .. | | IXLSDWACOMUREQPURGED | "X'40" The IXLLIST/IXLCACHE request was purged. The request was not executed. This bit is only valid when the IxlSdwaComuReqAsync bit is not set. |
| 6 | (6) | CHARACTER | 2 | | Reserved |
| 8 | (8) | CHARACTER | 1 | IXLSDWACOMUEND | |
| | | | (0) | | |
| 8 | (8) | X'8' | 0 | IXLSDWACOMU_LEN | |

IXLYCON Cross Reference

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|------------|-------------|
| Dec | Hex | | | | |

**-IXLSDWACOMU"

IXLYCON Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|--------------------------------|------------|-----------|-----------------------------|------------|-----------|
| IXLCFLEVEL0 | 0 | 0 | | 0 | 4 |
| IXLCFLEVEL1 | 0 | 1 | IXLRETCODEMODIFYDONE | 0 | 0 |
| IXLCFLEVEL10 | 0 | A | IXLRETCODENOSTORAGE | 0 | 8 |
| IXLCFLEVEL11 | 0 | B | IXLRETCODENOTCONNECTED | 0 | 4 |
| IXLCFLEVEL12 | 0 | C | IXLRETCODEOK | 0 | 0 |
| IXLCFLEVEL2 | 0 | 2 | IXLRETCODEPARMERROR | 0 | 8 |
| IXLCFLEVEL3 | 0 | 3 | IXLRETCODESOMENEINV | 0 | 4 |
| IXLCFLEVEL4 | 0 | 4 | IXLRETCODEWARNING | 0 | 4 |
| IXLCFLEVEL5 | 0 | 5 | IXLRSNCODEALLOWALTER | 0 | C61 |
| IXLCFLEVEL6 | 0 | 6 | IXLRSNCODEALLOWREBLD | 0 | C52 |
| IXLCFLEVEL7 | 0 | 7 | IXLRSNCODEALREADYALTERING | 0 | 427 |
| IXLCFLEVEL8 | 0 | 8 | IXLRSNCODEALREADYCALLED | 0 | 80C |
| IXLCFLEVEL9 | 0 | 9 | IXLRSNCODEALREADYOWNED | 0 | 812 |
| IXLMODENORESPONSE | 0 | 1 | IXLRSNCODEALREADYPENDING | 0 | 813 |
| IXLMODESYNCEXIT | 0 | 0 | IXLRSNCODEALREADYREBUILDING | 0 | 415 |
| IXLMODESYNCFAIL | 0 | 3 | IXLRSNCODEALREADYSTOPPING | 0 | 416 |
| IXLMODESYNCSUSPEND | 0 | 2 | IXLRSNCODEALTERNOTINPROG | 0 | C63 |
| IXLRCCONTEXTCALLAGAIN | 0 | 8 | IXLRSNCODEALTERRATIOCHG | 0 | C62 |
| IXLRCCONTEXTCONTINUEMANAGEMENT | 0 | 0 | IXLRSNCODEALTERSTOPINPROG | 0 | C66 |
| IXLRCCONTEXTREBUILDDEFER | 0 | C | IXLRSNCODEAREATOOSMALL | 0 | 80D |
| IXLRCCONTEXTSTOPMANAGEMENT | 0 | 4 | IXLRSNCODEEASYNCH | 0 | 402 |
| IXLRCEVENTEXTLATERRESPONSE | 0 | 8 | IXLRSNCODEBADADJALET | 0 | 83B |
| IXLRCEVENTEXTRELEASECONN | 0 | 1 | IXLRSNCODEBADAMDALEVEL | 0 | 885 |
| IXLRCEVENTEXTRESPONSE | 0 | 0 | IXLRSNCODEBADANSALET | 0 | 83C |
| IXLRETCODEALLEMPVAL | 0 | 0 | IXLRSNCODEBADANSAREA | 0 | 838 |
| IXLRETCODEBUFNOTVALID | 0 | 4 | IXLRSNCODEBADANSLEN | 0 | 83D |
| IXLRETCODEBUFVALID | 0 | 0 | IXLRSNCODEBADAREA | 0 | 80E |
| IXLRETCODECOMPERROR | 0 | 10 | IXLRSNCODEBADAREALET | 0 | 80F |
| IXLRETCODECONNECTED | 0 | 0 | IXLRSNCODEBADASCmode | 0 | 88A |
| IXLRETCODEENVERROR | 0 | C | IXLRSNCODEBADBOUNDARY | 0 | 82C |
| IXLRETCODEINDXINVALID | 0 | 8 | | | |
| IXLRETCODEINVALIDLEN | 0 | 10 | | | |
| IXLRETCODEINVALIDTOKN | 0 | C | | | |
| IXLRETCODELESSTHAN | 0 | 4 | | | |
| IXLRETCODELSTEMPTY | 0 | 0 | | | |
| IXLRETCODELSTNONEMPTY | | | | | |

| Name | Hex Offset | Hex Value |
|--------------------------------|------------|-----------|
| IXLRSNCODEBADBUFKEY | 0 | 866 |
| IXLRSNCODEBADBUFLIST | 0 | 867 |
| IXLRSNCODEBADBUFSIZE | 0 | 864 |
| IXLRSNCODEBADBUFSPEC | 0 | 865 |
| IXLRSNCODEBADCFLEVEL | 0 | 881 |
| IXLRSNCODEBADCOBEG | 0 | 82A |
| IXLRSNCODEBADCOCLASS | 0 | 82E |
| IXLRSNCODEBADCOLOCKSTATE | 0 | 81E |
| IXLRSNCODEBADCONID | 0 | 817 |
| IXLRSNCODEBADCONNAME | 0 | 80B |
| IXLRSNCODEBADCONTOKEN | 0 | 80A |
| IXLRSNCODEBADDATAADDR | 0 | 835 |
| IXLRSNCODEBADDATAALET | 0 | 83A |
| IXLRSNCODEBADDATAOFFSET | 0 | 8AB |
| IXLRSNCODEBADELEMCHARORINCRNUM | 0 | 88B |
| IXLRSNCODEBADELEMNUM | 0 | 86A |
| IXLRSNCODEBADEMCSTGPCT | 0 | 883 |
| IXLRSNCODEBADENTRYID | 0 | 843 |
| IXLRSNCODEBADENTRYIDTYPE | 0 | 88D |
| IXLRSNCODEBADENTRYIDVALUE | 0 | 890 |
| IXLRSNCODEBADENTRYLIST | 0 | 840 |
| IXLRSNCODEBADENTRYNAME | 0 | 841 |
| IXLRSNCODEBADENTRYVERSION | 0 | 83F |
| IXLRSNCODEBADEXTRESTOKEN | 0 | 887 |
| IXLRSNCODEBADGETCOLOCK | 0 | 8AC |
| IXLRSNCODEBADID | 0 | 844 |
| IXLRSNCODEBADIDINDEX | 0 | 82B |
| IXLRSNCODEBADKEYCOMPARE | 0 | 894 |
| IXLRSNCODEBADKEYCOMPARETYP | 0 | 89B |
| IXLRSNCODEBADKEYRANGEEND | 0 | 891 |
| IXLRSNCODEBADKEYSCANTYPE | 0 | 898 |
| IXLRSNCODEBADKEYTYPE | 0 | 897 |
| IXLRSNCODEBADKRNOTEMPTY | | |

| Name | Hex Offset | Hex Value |
|---------------------------|------------|-----------|
| IXLRSNCODEBADLISTAUTH | 0 | 892 |
| IXLRSNCODEBADLISTKEYAREA | 0 | 859 |
| IXLRSNCODEBADLISTNOTEMPTY | 0 | 895 |
| IXLRSNCODEBADLISTNUMBER | 0 | 893 |
| IXLRSNCODEBADLOCKCOMP | 0 | 847 |
| IXLRSNCODEBADLOCKINDEX | 0 | 854 |
| IXLRSNCODEBADLRBTYPE | 0 | 846 |
| IXLRSNCODEBADMINCFLEVEL | 0 | 877 |
| IXLRSNCODEBADMINCMC | 0 | 89E |
| IXLRSNCODEBADMODEVAL | 0 | 884 |
| IXLRSNCODEBADMOSVECTOR | 0 | 879 |
| IXLRSNCODEBADMOVETOKEY | 0 | 880 |
| IXLRSNCODEBADMOVETOLIST | 0 | 89C |
| IXLRSNCODEBADMOVETOSKEY | 0 | 84E |
| IXLRSNCODEBADMRTDLEVEL | 0 | 89D |
| IXLRSNCODEBADNEPL | 0 | 8A8 |
| IXLRSNCODEBADNONPGBLATTR | 0 | 815 |
| IXLRSNCODEBADNSBAREA | 0 | 834 |
| IXLRSNCODEBADNUMNAMES | 0 | 875 |
| IXLRSNCODEBADPARITY | 0 | 830 |
| IXLRSNCODEBADPARMLIST | 0 | 82F |
| IXLRSNCODEBADPARMLISTALET | 0 | 801 |
| IXLRSNCODEBADPGBLATTR | 0 | 802 |
| IXLRSNCODEBADREADADJDATA | 0 | 833 |
| IXLRSNCODEBADREADTYPE | 0 | 40D |
| IXLRSNCODEBADREALADDR | 0 | 822 |
| IXLRSNCODEBADRECLVCTR | 0 | 836 |
| IXLRSNCODEBADREFOPTION | 0 | 868 |
| IXLRSNCODEBADREQBUFFER | 0 | 882 |
| IXLRSNCODEBADREQCFLEVEL | 0 | 878 |
| IXLRSNCODEBADREQNUM | 0 | C68 |
| IXLRSNCODEBADREQTOKEN | 0 | 876 |
| IXLRSNCODEBADREQTOKEN | 0 | 831 |

IXLYCON Cross Reference

| Name | Hex Offset | Hex Value |
|-------------------------------|------------|-----------|
| IXLRSNCODEBADREQTOKENAREA | 0 | 839 |
| IXLRSNCODEBADREQUEST | 0 | 886 |
| IXLRSNCODEBADRESET | 0 | 848 |
| IXLRSNCODEBADRESTOKEN | 0 | 849 |
| IXLRSNCODEBADRNAMELEN | 0 | 87A |
| IXLRSNCODEBADRNLINDEX | 0 | 874 |
| IXLRSNCODEBADSKYCOMPARE | 0 | 899 |
| IXLRSNCODEBADSKYREQTYPE | 0 | 89A |
| IXLRSNCODEBADSTATE | 0 | 814 |
| IXLRSNCODEBADSTGCLASS | 0 | 82D |
| IXLRSNCODEBADSTGSTATS | 0 | 869 |
| IXLRSNCODEBADSTRUCTURESIZE | 0 | 888 |
| IXLRSNCODEBADSSUSPENDOPTION | 0 | 8A9 |
| IXLRSNCODEBADTCB | 0 | 805 |
| IXLRSNCODEBADUNLOCKVAL | 0 | 829 |
| IXLRSNCODEBADUSEREVENT | 0 | 858 |
| IXLRSNCODEBADVECTOROP | 0 | 819 |
| IXLRSNCODEBADVERSION# | 0 | 804 |
| IXLRSNCODEBADVERSIONNUM | 0 | 804 |
| IXLRSNCODEBADWDLINDEX | 0 | 874 |
| IXLRSNCODEBADWORBAREA | 0 | 87D |
| IXLRSNCODEBADWRITEADJDATA | 0 | 837 |
| IXLRSNCODEBUFFERFULL | 0 | 40F |
| IXLRSNCODECALCULATIONOVERFLOW | 0 | 889 |
| IXLRSNCODECFLEVEL | 0 | C53 |
| IXLRSNCODECFNOTACCESSIBLE | 0 | C98 |
| IXLRSNCODECFNOTINPOLICY | 0 | C07 |
| IXLRSNCODECOCLASSERR | 0 | 422 |
| IXLRSNCODECOLOCKHELD | 0 | 827 |
| IXLRSNCODECOMPUTEREJECTED | 0 | 88C |
| IXLRSNCODECONACTIVE | 0 | C26 |
| IXLRSNCODECONNAME | 0 | 81F |
| IXLRSNCODECONNAMEERR | | |

| Name | Hex Offset | Hex Value |
|--------------------------------|------------|-----------|
| IXLRSNCODECONNNOTACTIVE | 0 | 823 |
| IXLRSNCODECONNNOTDEFINED | 0 | C40 |
| IXLRSNCODECONNOTINPOL | 0 | C3F |
| IXLRSNCODECONNPENDINGRECONCIL | 0 | C23 |
| IXLRSNCODECONNPENDINGRECONCIL | 0 | C33 |
| IXLRSNCODECONNPENDED | 0 | C09 |
| IXLRSNCODECOUNCHANGED | 0 | 828 |
| IXLRSNCODEDEFINE | 0 | C11 |
| IXLRSNCODEDENIED | 0 | C0F |
| IXLRSNCODEDIRRATIO | 0 | 860 |
| IXLRSNCODEDSNOTCREATED | 0 | C12 |
| IXLRSNCODEDUMPINPROGRESS | 0 | C30 |
| IXLRSNCODEDUMPSEHHELD | 0 | C3B |
| IXLRSNCODEDUPALTER | 0 | C76 |
| IXLRSNCODEDUPLEXCOMPLETE | 0 | C72 |
| IXLRSNCODEDUPLEXFAILURE | 0 | C9C |
| IXLRSNCODEDUPLEXNOTFEASIBLE | 0 | C75 |
| IXLRSNCODEDUPLEXNOTPERMITTED | 0 | C6F |
| IXLRSNCODEDUPLICATEENTRYID | 0 | 896 |
| IXLRSNCODEELEMINCNUM | 0 | 86B |
| IXLRSNCODEELEMNUMMISMATCH | 0 | 8AA |
| IXLRSNCODEENTRIESCHANGED | 0 | 855 |
| IXLRSNCODEENTRYRATIO | 0 | 861 |
| IXLRSNCODEEXITCOND | 0 | 411 |
| IXLRSNCODEFORCECONNDELSTR | 0 | 41A |
| IXLRSNCODEHIGHCOEND | 0 | 40B |
| IXLRSNCODEIGNOREFORREBUILDSTOP | 0 | 41D |
| IXLRSNCODEIGNOREFORSYSGMDSTOP | 0 | 428 |
| IXLRSNCODEINCLEANUP | 0 | C3E |
| IXLRSNCODEINCOMPATSTATE | 0 | 826 |
| IXLRSNCODEINCONSISTENTPARM | 0 | 88E |
| IXLRSNCODEINSUFFCFLEVELUSER | 0 | C9A |
| IXLRSNCODEINVALIDCFLEVEL | 0 | 86F |

| Name | Hex Offset | Hex Value |
|--------------------------------|---------------|--------------|
| IXLRSNCODEINVALIDCOCLASS | 0 | 85E |
| IXLRSNCODEINVALIDEVENT | 0 | C42 |
| IXLRSNCODEINVALIDLISTATTR | 0 | 85C |
| IXLRSNCODEINVALIDSTGCLASS | 0 | 85D |
| IXLRSNCODEINVALIDVECTORLEN | 0 | 85F |
| IXLRSNCODEINVLISTVINDEXT | 0 | 853 |
| IXLRSNCODEJOINFAILED | 0 | C04 |
| IXLRSNCODELISTFULL | 0 | C18 |
| IXLRSNCODELOCKCOND | 0 | 410 |
| IXLRSNCODELOCKHELDDBSYS | 0 | 412 |
| IXLRSNCODELOCKNOTHELD | 0 | 40E |
| IXLRSNCODEMASK | 0 | FFFF |
| IXLRSNCODEMASTERAS | 0 | 808 |
| IXLRSNCODEMAXCONNECTAS | 0 | C15 |
| IXLRSNCODEMAXELEMNUM | 0 | 862 |
| IXLRSNCODEMAXELEMNUMELEMCHAR | 0 | 871 |
| IXLRSNCODEMAXLISTKEY | 0 | 83E |
| IXLRSNCODEMINELEMENT | 0 | 873 |
| IXLRSNCODEMINENTRY | 0 | 872 |
| IXLRSNCODEMOREDATA | 0 | 404 |
| IXLRSNCODENOACTIVECONNS | 0 | C35 |
| IXLRSNCODENOADJUNCTDATA | 0 | 40C |
| IXLRSNCODENOALTERCF | 0 | C60 |
| IXLRSNCODENOCOCONN | 0 | C06 |
| IXLRSNCODENOCOCONNDUPLEXNEWSTR | 0 | C0C |
| IXLRSNCODENODELAY | 0 | C69 |
| IXLRSNCODENODELETEONRELEASE | 0 | 424 |
| IXLRSNCODENOELEMENTTOKEEP | 0 | 418 |
| IXLRSNCODENOENTRY | 0 | 825 |
| IXLRSNCODENOFAC | 0 | C08 |
| IXLRSNCODENOKEYS | 0 | 84A |
| IXLRSNCODENOLENTRIES | 0 | 81B |
| IXLRSNCODENOLISTHDRS | | |

| Name | Hex Offset | Hex Value |
|-------------------------------|---------------|--------------|
| IXLRSNCODENOLISTVECTOR | 0 | 81C |
| IXLRSNCODENOLOCKS | 0 | 852 |
| IXLRSNCODENOLOCKSHELD | 0 | 84B |
| IXLRSNCODENOMORECONNS | 0 | 41F |
| IXLRSNCODENOMORECONNS | 0 | C02 |
| IXLRSNCODENOMOREERTES | 0 | 406 |
| IXLRSNCODENONAMES | 0 | 845 |
| IXLRSNCODENORCLVCTR | 0 | 832 |
| IXLRSNCODENOREADDATA | 0 | 40A |
| IXLRSNCODENORTENTRY | 0 | 81A |
| IXLRSNCODENORTE EXISTS | 0 | 816 |
| IXLRSNCODENOSAFAUTH | 0 | 84C |
| IXLRSNCODENOSTRDUMP | 0 | C4D |
| IXLRSNCODENOSTRFOUND | 0 | 425 |
| IXLRSNCODENOSUCHCONNECTION | 0 | C2A |
| IXLRSNCODENOSUSPENDISABLE | 0 | 851 |
| IXLRSNCODENOTAVAILABLE | 0 | FFFFFF |
| IXLRSNCODENOTAVAILABLE16 | 0 | FFFF |
| IXLRSNCODENOTDISABLED | 0 | 85A |
| IXLRSNCODENOTDUPLEXESTAB | 0 | C71 |
| IXLRSNCODENOTENABLED | 0 | 807 |
| IXLRSNCODENOTLASTCONFIRMATION | 0 | 417 |
| IXLRSNCODENOTLOCKSTR | 0 | 818 |
| IXLRSNCODENOTREBUILDING | 0 | C3D |
| IXLRSNCODENOUPTATEONKEEP | 0 | 419 |
| IXLRSNCODENOVARRNAME | 0 | 87B |
| IXLRSNCODEOWNINGRESOURCES | 0 | 401 |
| IXLRSNCODEPASNEXCEEDED | 0 | C16 |
| IXLRSNCODEPENDING | 0 | 41C |
| IXLRSNCODEPERSISTENTLOCK | 0 | 842 |
| IXLRSNCODEPRIMARYNOTHOME | 0 | 809 |
| IXLRSNCODEQUIESCEDSUSPENDFAIL | 0 | CA0 |
| IXLRSNCODERCLVCTRNOTSET | 0 | 414 |

IXLYCON Cross Reference

| Name | Hex Offset | Hex Value |
|-------------------------------------|---------------|--------------|
| IXLRNSCODEREBLDINSUFFCONN | 0 | C6B |
| IXLRNSCODEREBLDNOBETTERCONN | 0 | C6A |
| IXLRNSCODEREBLDNOOTHER | 0 | C67 |
| IXLRNSCODEREBUILDDBADCONN | 0 | C45 |
| IXLRNSCODEREBUILDCFNAMEXCFSIGSTR | 0 | C6C |
| IXLRNSCODEREBUILDCOMPLETE | 0 | C46 |
| IXLRNSCODEREBUILDCONNECT | 0 | C3C |
| IXLRNSCODEREBUILDCONNECTNOPREF | 0 | C50 |
| IXLRNSCODEREBUILDCONNECTSTOP | 0 | C4E |
| IXLRNSCODEREBUILDCONNEXISTS | 0 | C44 |
| IXLRNSCODEREBUILDCONNPHASE | 0 | C47 |
| IXLRNSCODEREBUILDDEERSPIGNORED | 0 | C49 |
| IXLRNSCODEREBUILDINPROGRESS | 0 | C51 |
| IXLRNSCODEREBUILDNOTPERMITTED | 0 | C4A |
| IXLRNSCODEREBUILDNUMUSER | 0 | 856 |
| IXLRNSCODEREBUILDPOPCFDELETEPENDING | 0 | C86 |
| IXLRNSCODEREBUILDPOPCFFAILED | 0 | C84 |
| IXLRNSCODEREBUILDPOPCFINCLEANUP | 0 | C85 |
| IXLRNSCODEREBUILDPOPCFINPROGRESS | 0 | C80 |
| IXLRNSCODEREBUILDPOPCFNOSTRUCTS | 0 | C83 |
| IXLRNSCODEREBUILDPOPCFNOTINPROGRESS | 0 | C81 |
| IXLRNSCODEREBUILDVECTORLEN | 0 | 870 |
| IXLRNSCODERECORDLISTATTR | 0 | 85B |
| IXLRNSCODEREQNOTCOMP | 0 | 413 |
| IXLRNSCODEREQPURGED | 0 | C13 |
| IXLRNSCODERESERVEDNOT0 | 0 | 803 |
| IXLRNSCODERESOURCENOLONGEROWNED | 0 | C4C |
| IXLRNSCODERESOURCENOTFOUND | 0 | 810 |
| IXLRNSCODERSPNOTREC | 0 | C27 |
| IXLRNSCODERTENOTFOUND | 0 | 408 |
| IXLRNSCODERTFULL | 0 | C0B |
| IXLRNSCODESPECIALCONN | 0 | 407 |
| IXLRNSCODESRBMODE | | |

| Name | Hex Offset | Hex Value |
|--------------------------------------|---------------|--------------|
| IXLRNSCODESTATUSUNKNOWN | 0 | 806 |
| IXLRNSCODESTGCLASSERR | 0 | C14 |
| IXLRNSCODESTILLACTIVECONN | 0 | 421 |
| IXLRNSCODESTOPINPROGRESS | 0 | C28 |
| IXLRNSCODESTOPPINGDIRECTION | 0 | C36 |
| IXLRNSCODESTRALTERNOTALLOW | 0 | C74 |
| IXLRNSCODESTRALTERRESTRICT | 0 | C64 |
| IXLRNSCODESTRALTERRESTRICT | 0 | C65 |
| IXLRNSCODESTRFAILED | 0 | C73 |
| IXLRNSCODESTRFAILURE | 0 | C25 |
| IXLRNSCODESTRFULL | 0 | C17 |
| IXLRNSCODESTRNOTALLOCATED | 0 | C0A |
| IXLRNSCODESTRNOTINPOLICY | 0 | C05 |
| IXLRNSCODESTRSERIAL | 0 | 821 |
| IXLRNSCODESTRSIZEMAX | 0 | 86D |
| IXLRNSCODESTRTYPE | 0 | 820 |
| IXLRNSCODESTRUCTUREERR | 0 | 423 |
| IXLRNSCODESTRUCTUREFAIL | 0 | 426 |
| IXLRNSCODESUBJCONNNOTDEFINED | 0 | C48 |
| IXLRNSCODESUBJCONNNOTFAILING | 0 | C6D |
| IXLRNSCODESUPERSEDED | 0 | C0D |
| IXLRNSCODESYNCHBADSTATE | 0 | 811 |
| IXLRNSCODESYNCHRTNOTDELETED | 0 | 41E |
| IXLRNSCODESYSMGDBADSTARTREASON | 0 | C95 |
| IXLRNSCODESYSMGDCOMPLETENOTPERMITTED | 0 | C97 |
| IXLRNSCODESYSMGDLOSSCONN | 0 | C96 |
| IXLRNSCODESYSMGDNOHISTORY | 0 | C9B |
| IXLRNSCODESYSMGDNOTSUPPORTEDCDS | 0 | C99 |
| IXLRNSCODESYSMGDNOTSUPPORTEDCONN | 0 | C94 |
| IXLRNSCODESYSMGDNOTSUPPORTEDSTR | 0 | C92 |
| IXLRNSCODESYSMGDRESPONSENOTPERMITTED | 0 | C91 |
| IXLRNSCODESYSMGDSTRPREFLIST | 0 | C93 |
| IXLRNSCODESYSMGDXCFERROR | 0 | 100B |

| Name | Hex Offset | Hex Value |
|------|---------------|--------------|
|------|---------------|--------------|

| | | |
|-------------------------------------|---|------|
| IXLRSNCODETASKTERM | 0 | 863 |
| IXLRSNCODETIMEOUT | 0 | 409 |
| IXLRSNCODETIMERNOTSET | 0 | C19 |
| IXLRSNCODEUNEXPECTEDRESPONSE | 0 | C41 |
| IXLRSNCODEUSEREVENTMISMATCH | 0 | C37 |
| IXLRSNCODEUSERMISMATCH | 0 | C38 |
| IXLRSNCODEUSYNCEVENTNOTSET | 0 | C4B |
| IXLRSNCODEUSYNCEVENTSET | 0 | 420 |
| IXLRSNCODEUSYNCSNOEVENTSET | 0 | C4F |
| IXLRSNCODEWRONGREBUILDTYPE | 0 | C70 |
| IXLRSNCODEWRONGSTRTYPE | 0 | 824 |
| IXLRSNCODEXESFAIL | 0 | 100A |
| IXLRSNCODEXESNOTACTIVE | 0 | C29 |
| IXLRSNCODEZEROLUSERS | 0 | 81D |
| IXLSDWACOMU | 0 | |
| IXLSDWACOMU_LEN | 8 | 8 |
| IXLSDWACOMUCOMPID | 0 | |
| IXLSDWACOMUEND | 8 | |
| IXLSDWACOMUFLAGS1 | 5 | |
| IXLSDWACOMUREQASYNC | 5 | 80 |
| IXLSDWACOMUREQPURGED | 5 | 40 |
| IXLSERVALTER | 0 | 2 |
| IXLSERVLOCK | 0 | 1 |
| IXLSERVREGRANT | 0 | 4 |
| IXLSERVUNLOCK | 0 | 3 |
| IXLSTATEEXCLUSIVE | 0 | 2 |
| IXLSTATEFREE | 0 | 0 |
| IXLSTATESHARED | 0 | 1 |
| IXLSTRYPECACHE | 0 | 4 |
| IXLSTRYPELIST | 0 | 3 |
| IXLUSYNCFWAILEDUSERCOMPCODE | 0 | FFFF |
| IXLYCON_KEMCSTGPCTBADCFLEVEL | 0 | 1 |
| IXLYCON_KENTRYIDTYPEUSERBADCFLEVEL | 0 | 4 |
| IXLYCON_KKEYTYPESECONDARYBADCFLEVEL | 0 | 5 |
| IXLYCON_KKEYTYPESECONDARYNOADJUNCT | | |

| Name | Hex Offset | Hex Value |
|------|---------------|--------------|
|------|---------------|--------------|

| | | |
|----------------------------------|---|---|
| | 0 | 1 |
| IXLYCON_KNAMECLASSMASKBADCFLEVEL | 0 | 3 |
| IXLYCON_KUDFORDERBADCFLEVEL | 0 | 2 |

IXLYCONA Programming Interface information

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|--|
| Programming Interface information |
| <p><u>IXLYCONA</u></p> |
| End of Programming Interface information |

IXLYCONA Heading Information

Common Name: Connect Answer Area
Macro ID: IXLYCONA
DSECT Name: CONA CONALOCKATTR CONALISTATTR CONACACHEATTR
Owning Component: Cross System Extended Services (SCIXL)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: USER-SUPPLIED
 Key: USER-SUPPLIED
 Residency: USER-SUPPLIED
Size: CONA -- X'03A8' bytes
 CONALOCKATTR -- X'0014' bytes
 CONALISTATTR -- X'0028' bytes
 CONACACHEATTR -- X'001C' bytes
Created by: Created by user and passed as a parameter using the
 ANSAREA keyword on the IXLCONN macro.
Pointed to by: Pointed to by the ANSAREA_ADDR field in the
 IXLCONN parameter list
Serialization: None required
Function: Contains all output from the Connect service

IXLYCONA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | CONA | Connect Answer area |
| 0 | (0) | CHARACTER | 4 | | Reserved |
| 4 | (4) | CHARACTER | 16 | CONACONTOKEN | Connect token that is output from IXLCONN. |
| 20 | (14) | CHARACTER | 16 | CONACONNAME | Name that uniquely identifies this connection to a structure. If a name was provided on connect, this field will equal that name, otherwise a generated name is returned. |
| 36 | (24) | CHARACTER | 16 | | Reserved |
| 52 | (34) | SIGNED | 4 | CONADIAG0 | See IXLCONN return/reason code documentation to determine whether the diag fields are valid for a particular non-zero return and reason code. |
| 56 | (38) | SIGNED | 4 | CONADIAG1 | For reason code xxxx0881 and xxxx088E, ConaDiag2 will contain the sub-reason code as described in the IXLCONN macro under these reason codes. |
| 60 | (3C) | SIGNED | 4 | CONADIAG2 | |
| 64 | (40) | CHARACTER | 8 | CONASTRUCTUREVERSION | Structure Version Id |
| 64 | (40) | CHARACTER | 8 | CONAPHYSICALSTRUCTUREVERSION | Physical structure version number. Connectors who specified or defaulted to IXLCONN ALLOWAUTO=NO use this field to uniquely identify a physical instance of the structure. Connectors who specified IXLCONN ALLOWAUTO=YES must use this field, along with ConaPhysicalStructureVersion2, to identify a physical instance of the structure. |
| 72 | (48) | CHARACTER | 4 | CONACONNECTIONVERSION | Connection Version Id |
| 76 | (4C) | SIGNED | 1 | CONACONID | Connection identifier. |
| 77 | (4D) | CHARACTER | 3 | | Reserved |
| 80 | (50) | BITSTRING | 4 | CONAFLAGS | Connection Status Flags. When a flag in this word is on, a return code of 4 and reason code of 'xxxx0407'x will be set by IXLCONN. |
| | | 1... .. | | CONARECONNECTED | "X'80" The ConName specified on connect matched the conname of a failed persistent connection, The connection has been re-established. |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|----------------------------|---|
| Dec | Hex | | | | |
| | | .1.. | | CONAREBUILD | "X'40" 1 => Rebuild is in progress for this structure. 0 => Rebuild is not in progress for this structure. |
| | | ..1. | | CONAREBUILDSTOP | "X'20" 1 => Rebuild Stop or Stop Duplex is in progress for this structure. 0 => Rebuild Stop or Stop Duplex is not in progress for this structure. |
| | | ...1 | | CONAUSYNCEVENTSET | "X'10" 1 => A user sync point event is set. This user must provide a response via IXLUSYNC. 0 => A user sync point event is not set. This bit will not be set for a Connect with the rebuild keyword. |
| | | 1... | | CONAALTERINPROGRESS | "X'08" 1 => Alter is currently in progress for the structure. No action is required by this connection. Information concerning the alter request is provided in ConaAlterInfo. 0 => An alter is not in progress |
| 84 | (54) | BITSTRING | 4 | CONASTRUCTUREATTRFLAGS | Structure attribute flags. |
| 84 | (54) | BITSTRING | 1 | CONASTRUCTUREATTRFLAGSB1 | Byte 1 of structure attribute flags |
| | | 1... | | CONASTRUCTUREDISP | "X'80" 1 => disposition is KEEP 0 => disposition is DELETE |
| | | .1.. | | CONACONNALLOC | "X'40" This connection allocated the structure in the hardware. The structure is in an initialized state. |
| | | ..1. | | CONACONNECTORCONNECTIVITY | "X'20" Flag only valid when a connect request fails due to lack of connectivity to the structure, i.e. with reason code IxIRsnCodeNoConn. 1 => there is at least one active connector to the structure who has connectivity to the structure, 0 => there are no active connectors to the structure who have connectivity to the structure |
| | | ...1 | | CONAIGNOREDEXCLUSIONLIST | "X'10" Flag only valid when ConaConnAlloc is on. On => structure was allocated in a facility containing a structure in the exclusion list. |
| | | 1... | | CONANOTFULLCONNECTIVITY | "X'08" Flag only valid when ConaConnAlloc and ConaRebuild are on. On => Structure was not allocated in a facility in which all existing connections have connectivity. |
| | |1.. | | CONAVOLATILE | "X'04" On => structure is volatile. Off => structure is non-volatile. |
| | |1. | | CONAFAILUREISOLATED | "X'02" On => structure is allocated in a facility that is failure isolated from the connection. Off => structure is allocated in a facility that is not failure isolated from the connection. |
| 85 | (55) | BITSTRING | 1 | CONASTRUCTUREATTRFLAGSB2 | Byte 2 of structure attribute flags |
| | | 1... | | CONASYSMGDDUPLEXED | "X'80" On => structure is duplexed by system-managed duplexing. Off => structure is not duplexed by system-managed duplexing. Valid only when the connector specifies ALLOWAUTO=YES. |
| | | .1.. | | CONASYSMGDDUPLEXEDFAILISOL | "X'40" On => the primary structure is failure isolated from the secondary structure. Off => the primary structure is not failure isolated from the secondary structure. Valid only when the connector specifies ALLOWAUTO=YES and ConaSysMgdDuplexed is on. |
| 86 | (56) | BITSTRING | 1 | CONASTRUCTUREATTRFLAGSB3 | Byte 3 of structure attribute flags |
| | | 1... | | CONASTRUCTURESMDUPESTAB | |

IXLYCONA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|----------------------|-----|--|--|
| Dec | Hex | | | | |
| | | | | | "X'80" Flag only valid when a connect request fails due to connections to structure are being prevented at this time, i.e. with reason code IxIRsnCodeConnPrevented. 1 => the structure is duplexed by system-managed process and is in the duplexed established phase. If the user specified or defaulted to ALLOWAUTO=NO on the connect, the connect will be prevented until such time when the structure becomes simplex. 0 => the structure is not in the duplexed established phase of a system-managed duplexing rebuild |
| 87 | (57) | BITSTRING | 1 | CONASTRUCTUREATTRFLAGSB4 | Byte 4 of structure attribute flags |
| 88 | (58) | SIGNED | 4 | CONASTRUCTURETYPE | Type of structure. Constants with names of the form "XTYPE_nnnn" are defined by the list form of the IXLCONN macro for the different possible structure types. |
| 92 | (5C) | SIGNED | 4 | CONASTRUCTURESIZE | Actual structure size in 4K blocks. The actual structure size may be less than the requested size due to insufficient space in the preference list facilities. |
| 96 | (60) | SIGNED | 4 | CONAMAXSTRUCTURESIZE | Maximum structure size in 4K blocks saved at the time the structure was allocated. The maximum structure size is obtained from the active policy at the time structure was allocated. |
| 100 | (64) | CHARACTER | 12 | CONAVECTORTOKEN | Applicable for List and Cache structures. Always returned for Cache. May be zero for a list structure if list headers and event queue are not to be monitored. |
| 112 | (70) | SIGNED | 4 | CONAVECTORLEN | Actual Vector length. Applicable for List and Cache structures. Always returned for Cache. May be zero for a list structure if list headers and event queue are not to be monitored. The length of the vector may be less than or more than the requested size. |
| 116 | (74) | SIGNED | 2 | CONAACCESSTIME | Maximum time that connectors can tolerate not having access to the structure. Access will be denied when dump serialization is obtained on the structure by SVC Dump. The unit is tenths of seconds. This value is only valid when ConaAccessTimeNoLimit is off. |
| 118 | (76) | CHARACTER | 1 | CONAACCESSTIMEFLAGS CONAACCESSTIMENOLIMIT | Reserved |
| 119 | (77) | CHARACTER 1... .. | 1 | | "X'80" 0=> the access time is defined by ConaAccessTime. 1 => the connector can tolerate not having access to the structure for an unlimited amount of time. |
| 120 | (78) | CHARACTER | 36 | CONAUNIONAREA1 | Area mapped based on return code |
| 120 | (78) | CHARACTER | 36 | CONAUSERSYNCPPOINTINFO | User sync point information. User Sync point information is not returned for a connect with the rebuild keyword. |
| 120 | (78) | SIGNED | 4 | CONAUSERSYNCPPOINTEVENT | User sync point event set by IXLUSYNC. |
| 124 | (7C) | CHARACTER | 32 | CONAUSERSYNCPPOINTUSERSTATE | User state set by IXLUSYNC. |
| 120 | (78) | CHARACTER | 36 | CONACLEARLTBYXESINFO | When return code 0000000C with reason code 02010C09 is returned for a lock structure with lock cleanup in progress by XES, ConaClearLTbyXESValid is on and additional information is provided. |
| 120 | (78) | BITSTRING 1... .. | 1 | CONACLEARLTBYXESFLAGS CONACLEARLTBYXESVALID | Flags |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-----------------------------|--|
| Dec | Hex | | | | |
| | | | | | "X'80" 1 => The return code 0000000C with reason code 02010C09 is returned for a lock structure with lock cleanup in progress by XES. The additional information is valid. |
| | | .1.. | | CONARECONNECTATTEMPT | "X'40" 1 => The ConName specified on connect matched the conname of a failed-persistent connection. |
| 121 | (79) | CHARACTER | 3 | | Reserved |
| 124 | (7C) | CHARACTER | 32 | CONADISCFAILINGSTRING | The string indicating the connections that are failing and still need to have a response to the disconnect. See ConaDiscFailedConfString for the composite string indicating the connections that still have to provide a response. The connection identifier is used for the bit position within the string. The string starts with bit position zero. For example, if connections with connection identifiers 1, 4, and 6 are represented in the string, the 1st byte would be '4A'X with all remaining bytes '00'X. |
| 156 | (9C) | SIGNED | 4 | CONAMINSTRUCTURESIZE | Minimum control space required (in 4K blocks) to allocate the structure with the attributes specified. Note that the structure may be able to be allocated smaller than this, but if so the structure attributes such as entry/element ratio may differ substantially from those that were requested. |
| 160 | (A0) | SIGNED | 4 | CONAFPCONNSNOTINPOLICY | Number of failed- persistent connections that are defined in the structure, but could not be reconstructed into the policy because the policy was too small. The Existing Connection event will not be presented for connections in this state. This situation only occurs when all systems fail, and the first system in the sysplex is re-ipl'd with a policy that supports a smaller number of connectors. |
| 164 | (A4) | SIGNED | 4 | CONAMVSRELEASEMAXCFLEVEL | Maximum Coupling Facility Operational level supported by this release of MVS |
| 168 | (A8) | SIGNED | 4 | CONAALLOCREQUESTEDSTRSIZE | Structure size (in 4K blocks) requested when structure was allocated. This field is valid only when ConaConnAlloc is on. The ConaStructureSize contains the actual structure size. The actual structure size may be less than the requested size due to insufficient space in the preference list facilities. |
| 172 | (AC) | CHARACTER | 8 | CONALOGICALSTRUCTUREVERSION | Logical structure version. Used in conjunction with the physical version number to identify an instance of a structure. The value of this field is set equal to the physical version number when the structure is initially allocated. It changes when a process that allocates a new instance of the structure (for example, rebuild) is user-managed, but not when it is system-managed. |
| 180 | (B4) | CHARACTER | 4 | | Reserved |
| 184 | (B8) | CHARACTER | 64 | CONASTRUCTUREATTRIBUTES | This area is mapped by ConaListAttr for a list structure, ConaLockAttr for a lock structure, and ConaCacheAttr for a Cache structure. |
| 248 | (F8) | CHARACTER | 40 | CONAREBUILDINFO | Information for a connection that connects during rebuild: Information is valid when ConaRebuild or ConaRebuildStop is set and the IXLCONN REBUILD keyword is not specified. |
| 248 | (F8) | SIGNED | 1 | CONAREBUILDSTARTREASON | Constants defined in IXL YEEPL. Reason specified on IXLREBLD REQUEST=START |
| 249 | (F9) | SIGNED | 1 | CONAREBUILDSTOPREASON | Constants defined in IXL YEEPL. Reason specified on IXLREBLD REQUEST=STOP. |
| 250 | (FA) | BITSTRING | 1 | CONAREBUILDFLAGS | flags |

IXLYCONA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|---------------------------|---|
| Dec | Hex | | | | |
| | | 1... | | CONAREBUILDFPCONNS | "X'80" 1 => failed persistent connections existed at rebuild start. This includes connections that could not be reconciled into the policy because the policy was too small. 0 => no failed persistent connections at rebuild start. |
| | | .1.. | | CONAREBUILDDUPLEX | "X'40" 1 => The rebuild currently in progress was started to create a duplex copy of the structure. 0 => The rebuild currently in progress was started for a non-duplexing rebuild. |
| | | ..1. | | CONAREBUILDDUPLEXSWITCH | "X'20" 1 => A duplex rebuild switch is in progress to forward complete the duplex rebuild to the new structure. The connector will not receive a duplex rebuild switch event. 0 => A duplex rebuild switch is not in progress. This bit is only valid when ConaRebuildPhase= ConaRebuildPhaseDupEstab |
| 251 | (FB) | SIGNED | 1 | CONAREBUILDPCTLOSSCONN | Percent loss of connectivity associated with an MVS-initiated loss of connectivity rebuild |
| 252 | (FC) | SIGNED | 4 | CONASTARTRSNCONNECTORCODE | Valid when ConaRebuildStartReason is equal to EeplStartRsnConnector. The user code was specified on IXLREBLD REQUEST=START. The field is equivalent to EeplStartRsnConnectorCode. |
| 256 | (100) | SIGNED | 4 | CONASTOPRSNCONNECTORCODE | Valid when ConaRebuildStopReason is equal to EeplStopRsnConnector. The user code was specified on IXLREBLD REQUEST=STOP. The field is equivalent to EeplStopRsnConnectorCode. |
| 260 | (104) | CHARACTER | 8 | CONAREBUILDCART | Valid when the rebuild start reason is operator and ConaRebuild is on, or when the rebuild stop reason is operator and ConaRebuildStop is on. |
| 268 | (10C) | SIGNED | 4 | CONAREBUILDCONSID | Valid when the rebuild start reason is operator and ConaRebuild is on, or when the rebuild stop reason is operator and ConaRebuildStop is on. |
| 272 | (110) | SIGNED | 1 | CONAREBUILDPHASE | Indicates what phase the rebuild was in when this connect occurred. This field is only valid when ConaRebuild is on. When ConaRebuild is on and ConaRebuildDuplex is off, the value of this field can only be ConaRebuildPhaseQuiesce. When ConaRebuild is on and ConaRebuildDuplex is on, the value of this field can be ConaRebuildPhaseQuiesce, or ConaRebuildPhaseConnect, or ConaRebuildPhaseDupEstab. Reserved |
| 273 | (111) | CHARACTER | 15 | CONAALTERINFO | Information concerning an alter request. This information is applicable only when ConaAlterInProgress is set |
| 288 | (120) | CHARACTER | 20 | | |
| 288 | (120) | BITSTRING | 4 | CONAALTERFLAGS | "X'80" Indicates that a change in the structure size was requested "X'40" Indicates that a change in the entry-to-element ratio was requested "X'20" Indicates whether current threshold composite permits the ratio to change via alter. on => indicates that the ratio can change. "X'10" Indicates that a change in the Event Monitor Controls storage percentage was requested. Applicable only to keyed list structures allocated in a coupling facility that supports CFLEVEL 4 or higher. |
| | | 1... | | CONAALTERSIZE | |
| | | .1.. | | CONAALTERRATIO | |
| | | ..1. | | CONAALTERRATIOCHG | |
| | | ...1 | | CONAALTEREMCSTG | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|--|-------|------------|-----|---------------------------|--|
| Dec | Hex | | | | |
| 292 | (124) | SIGNED | 4 | CONAALTERNATIVE | Target size when a size change requested |
| 296 | (128) | SIGNED | 2 | CONAALTERENTRYRATIO | Entry portion of the entry-to-element ratio when a ratio change is requested. |
| 298 | (12A) | SIGNED | 2 | CONAALTERELEMENTRATIO | Element portion of the entry-to-element ratio when a ratio change is requested. |
| 300 | (12C) | SIGNED | 1 | CONAALTERMINENTRY | The current composite of % of in-use entries that must be available when the alter completes. |
| 301 | (12D) | SIGNED | 1 | CONAALTERMINELEMENT | The current composite of % of in-use elements that must be available when the alter completes. |
| 302 | (12E) | SIGNED | 1 | CONAALTERMINEMC | The current composite of % of in-use EMC entries that must be available when the alter completes. |
| 303 | (12F) | CHARACTER | 1 | CONAALTEREMCSTGPCT | Reserved |
| 304 | (130) | SIGNED | 2 | | target percent of structure to be available for Event Monitor Controls when an EmcStgPct change is requested. Applicable only to keyed list structures, allocated in a coupling facility that supports CFLEVEL 4 or higher. |
| 306 | (132) | CHARACTER | 2 | CONADISCFACILEDCONFSTRING | Reserved |
| 308 | (134) | CHARACTER | 32 | | When return code 0000000C with reason code 02010C27 is returned, contains a string indicating the connections that still have to respond to the disconnect of the previous instance of the connector. When return code 0000000C with reason code 02010C09 is returned and ConaClearLTbyXESValid is on, then XES is doing lock cleanup for the lock structure and this field contains a composite string of the connections that still have to respond to the disconnect of any previous instance of the connector(s). For reason code 02010C09, see ConaClearLTbyXESInfo. The connection identifier is used for the bit position within the string. The string starts with bit position zero. For example, if connections with connection identifiers 1, 4, and 6 are represented in the string, the 1st byte would be '4A'X with all remaining bytes '00'X. |
| 340 | (154) | CHARACTER | 484 | CONAFACILITYARRAY | |
| <div> <div>Comment</div> <div> <p>ConaFacilityArray provides additional diagnostic information about unsuccessful attempts to allocate a structure. The data in the facility array is valid in two cases: 1) IXLCONN returns return code 0 and ConaConnAlloc is set 2) IXLCONN returns return code C, reason code xxxx0C08 because there were no suitable facilities in the preference list. The facility array is NOT in any particular order (i.e., the array is not in preference/exculsion list order). The array identifies facilities attempted and the reason the structure could not be allocated in the specified facility.</p> </div> <div>End of Comment</div> </div> | | | | | |
| 340 | (154) | SIGNED | 4 | CONAFACILITYCOUNT | Count of the number of facilities attempted. this count indicates how many entries in the array are valid. |
| 344 | (158) | CHARACTER | 60 | CONAFACILITY | |
| 344 | (158) | CHARACTER | 60 | CONAFACILITYENTRY | |
| 344 | (158) | CHARACTER | 8 | CONAFACILITYNAME | Facility name |
| 352 | (160) | SIGNED | 4 | CONAFACILITYRSNCODE | Reason facility was not suitable. Constants defined below. |

IXLYCONA Map

| Offsets | | | | | |
|---|-------|------------|-----|-------------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 356 | (164) | SIGNED | 4 | CONAFACILITYMINREQSIZE | Minimum apportionable structure size. This is the minimum number of 4K blocks of CF storage required to allocate a structure with the attributes specified on connect. This field is only valid when ConaFacilityRsnCode is ConaRsnInvalidStructureSize or ConaRsnInsufficientSpace. Note that it may be possible to allocate the structure smaller than this, but structure attributes such as the entry/element ratio may differ substantially from those that were requested. |
| Comment | | | | | |
| Current space and model dependent limits for each facility. | | | | | |
| End of Comment | | | | | |
| 360 | (168) | CHARACTER | 44 | CONAFACILITYINFO | Current CF space and model dependent limits |
| 360 | (168) | CHARACTER | 20 | CONAFACILITYINFOSPACE | This information is valid only when ConaFacilityRsnCode is set to ConaRsnParameterError, ConaRsnInvalidStructureSize, or ConaRsnInsufficientSpace. |
| 360 | (168) | SIGNED | 4 | CONAFACILITYTOTALSPACE | Total space in the facility in 4K blocks. (total space includes control and non-control space). |
| 364 | (16C) | SIGNED | 4 | CONAFACILITYTOTALCONTROLSPACE | Total control space in the facility in 4K blocks. |
| 368 | (170) | SIGNED | 4 | CONAFACILITYFREESPACE | Total free space in 4K blocks. (free space includes control and non-control space) |
| 372 | (174) | SIGNED | 4 | CONAFACILITYFREECONTROLSPACE | Free control space in 4K blocks. |
| 376 | (178) | SIGNED | 2 | CONAFACILITYSTORAGEINCREMENT | Storage increment size (in 4K blocks) |
| 378 | (17A) | SIGNED | 1 | CONAFACILITYMAXELEMCHAR | Maximum element characteristic. The element size can be determined by the following formula: 256 times (2 to the power of CONAFACILITYMAXELEMCHAR) |
| 379 | (17B) | SIGNED | 1 | CONAFACILITYUSERLIMIT | Model dependent limit for the number of users supported by the structure type specified on IXLCONN. This limit may be greater than the number of users permitted to connect to the structure, due to other constraints such as policy size. |
| 380 | (17C) | CHARACTER | 12 | CONAFACILITYINFODIAG | |
| 380 | (17C) | SIGNED | 4 | CONADIAG3 | Contents depend on the value of ConaFacilityRsnCode |
| 384 | (180) | SIGNED | 4 | CONADIAG4 | Contents depend on the value of ConaFacilityRsnCode |
| 388 | (184) | SIGNED | 4 | CONADIAG5 | Contents depend on the value of ConaFacilityRsnCode |
| 392 | (188) | SIGNED | 4 | CONAFACILITYCFLEVEL | Coupling facility level. This information is valid only when ConaFacilityRsnCode is set to ConaRsnParameterError, ConaRsnInvalidStructureSize, ConaRsnInsufficientSpace, ConaRsnNoConn, ConaRsnUnknown, ConaRsnFacilityFailure, or ConaRsnStrFailure |
| Comment | | | | | |
| Facility Limits. The following are structure specific limits. | | | | | |
| End of Comment | | | | | |
| 396 | (18C) | CHARACTER | 8 | CONAFACILITYINFOLIMITS | This information is valid only when ConaFacilityRsnCode is set to ConaRsnParameterError, ConaRsnInvalidStructureSize, or ConaRsnInsufficientSpace. |
| 396 | (18C) | SIGNED | 4 | CONAFACILITYMAXLISTHEADER | |

| Offsets | | | | | |
|---|-------|------------|-----|--------------------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 400 | (190) | SIGNED | 1 | CONAFACILITYMAXSTORAGECLASS | List structure only. Max number of list headers. |
| 401 | (191) | SIGNED | 1 | CONAFACILITYMAXLOCKUSERS | Cache structure only. Max number of storage classes. Max number of users supported for a lock structure based on the model dependent limit for the width of a lock entry. This value may be greater than the actual number of users that can connect to the structure, due to other constraints such as policy size. |
| 402 | (192) | SIGNED | 2 | CONAFACILITYMAXCASTOUTCLASS | Cache structure only. Max number of cast out classes. |
| Comment | | | | | |
| Current space and model dependent limits for the facility that the structure was allocated in. This information is returned regardless of whether ConaConnAlloc is set or not. This information is current rather than from the time the structure was allocated. | | | | | |
| End of Comment | | | | | |
| 824 | (338) | CHARACTER | 44 | CONACFACILITYINFO | The following facility information is about the facility that the structure is currently allocated in. |
| 824 | (338) | SIGNED | 4 | CONACFACILITYTOTALSPACE | Total space in the facility in 4K blocks. (total space includes control and non-control space). |
| 828 | (33C) | SIGNED | 4 | CONACFACILITYTOTALCONTROLSPACE | Total control space in the facility in 4K blocks. |
| 832 | (340) | SIGNED | 4 | CONACFACILITYFREESPACE | Total free space in 4K blocks. (free space includes control and non-control space) |
| 836 | (344) | SIGNED | 4 | CONACFACILITYFREECONTROLSPACE | Free control space in 4K blocks. |
| 840 | (348) | SIGNED | 2 | CONACFACILITYSTORAGEINCREMENT | Storage increment size (in 4K blocks) |
| 842 | (34A) | SIGNED | 1 | CONACFACILITYMAXELEMCHAR | Maximum element characteristic. The element size can be determined by the following formula: 256 times (2 to the power of CONAFACILITYMAXELEMCHAR) |
| 843 | (34B) | SIGNED | 1 | CONACFACILITYUSERLIMIT | Model dependent limit for the number of users supported by the structure type specified on IXLCONN. This limit may be greater than the number of users permitted to connect to the structure, due to other constraints such as policy size. |
| 844 | (34C) | SIGNED | 4 | CONACFACILITYCFLEVEL | Coupling facility operational level. The level of operations that can be performed against this structure. The connector must not perform operations against this structure that require a coupling facility level greater than ConaCFacilityCFLevel or ConaMVSReleaseMaxCFlevel, whichever is less. |
| 848 | (350) | CHARACTER | 8 | CONACFACILITYNAME | Coupling facility name at time of connect. This may be changed later by policy switch |
| 856 | (358) | CHARACTER | 4 | | Reserved |
| Comment | | | | | |
| Facility Limits. The following are structure specific limits. | | | | | |
| End of Comment | | | | | |
| 860 | (35C) | SIGNED | 4 | CONACFACILITYMAXLISTHEADER | List structure only. Max number of list headers. |

IXLYCONA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|-------------------------------|---|
| Dec | Hex | | | | |
| 864 | (360) | SIGNED | 1 | CONACFACILITYMAXSTORAGECLASS | Cache structure only. Max number of storage classes. |
| 865 | (361) | SIGNED | 1 | CONACFACILITYMAXLOCKUSERS | Max number of users supported for a lock structure based on the model dependent limit for the width of a lock entry. This value may be greater than the actual number of users that can connect to the structure, due to other constraints such as policy size. |
| 866 | (362) | SIGNED | 2 | CONACFACILITYMAXCASTOUTCLASS | Cache structure only. Max number of cast out classes. |
| 868 | (364) | SIGNED | 4 | CONADIAG6 | |
| 872 | (368) | SIGNED | 4 | CONADIAG7 | |
| 876 | (36C) | SIGNED | 4 | CONADIAG8 | |
| 880 | (370) | SIGNED | 4 | CONADIAG9 | |
| 884 | (374) | SIGNED | 4 | CONADIAG10 | |
| 888 | (378) | CHARACTER | 8 | CONAPHYSICALSTRUCTUREVERSION2 | 2nd physical structure version number. Applicable only for connectors who specified IXLCONN ALLOWAUTO=YES. This field, along with ConaPhysicalStructureVersion, uniquely identifies a physical instance of the structure. |
| 896 | (380) | SIGNED | 4 | CONADIAG11 | Will be filled in when the allocated structure is allocated at a size smaller than MINSIZE. This will only be filled in when ConaFacilityRsnCode is set to ConaRsnInsufficientSpace Reserved |
| 900 | (384) | CHARACTER | 36 | | |
| 900 | (384) | X'0' | 0 | CONARSNSUCCESS | "0" Reason: Structure was successfully allocated in the facility. |
| 900 | (384) | X'1' | 0 | CONARSNNOCONNPOLICY | "1" Reason: Active policy indicates that this system does not have connectivity to the facility. Action: Physical connectivity must be re-established. Then re-issue the connect request again. |
| 900 | (384) | X'2' | 0 | CONARSNFACILITYNOTINPOLICY | "2" Reason: The facility is not defined in the active policy. Action: Verify that the set of facilities actually in use in the sysplex is correct and matches the administrative policy most recently activated. |
| 900 | (384) | X'3' | 0 | CONARSNNOCONN | "3" Reason: Connectivity to the facility has been lost. Action: Physical connectivity must be re-established. Then re-issue the connect request again. |
| 900 | (384) | X'4' | 0 | CONARSNFACILITYFAILURE | "4" Reason: Facility has failed. |
| 900 | (384) | X'5' | 0 | CONARSNSTRFAILURE | "5" Reason: Structure failed during the allocate processes. |
| 900 | (384) | X'6' | 0 | CONARSNPARAMETERERROR | "6" Reason: The structure attributes were inconsistent with the model dependent attributes of the facility. Action: Change the attributes of the structure based on the model dependent limits returned for each facility. |
| 900 | (384) | X'7' | 0 | CONARSNINVALIDSTRUCTURESIZE | "7" Reason: Structure size specified was too small to allocate the structure with the attributes specified. This may be the result of the initial allocation size being too small, the maximum structure size being too large, or a combination of both. One possible scenario is that the initial structure size was calculated based on a CF with a CFLEVEL different from where the structure was allocated previously. ConaFacilityMinReqSize is set to the minimum storage required to allocate the structure in this facility with the requested attributes. Action: Increase the structure size either on IXLCONN or increase the structure size and/or the initial size in the CFRM policy. |
| 900 | (384) | X'8' | 0 | CONARSNALLOCNOTPERMITTED | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|---------------------------------|---|
| Dec | Hex | | | | |
| 900 | (384) | X'9' | 0 | CONARSNXCFCOMPERROR | "8" Reason: New structures cannot be allocated in the facility according to the active policy. Reasons: the facility is being removed from the active policy, the facility has failed, or the facility is in the policy reconciliation process. |
| 900 | (384) | X'A' | 0 | CONARSNUNKNOWN | "9" Reason: XCF component error. Action: Call IBM Service. |
| 900 | (384) | X'B' | 0 | CONARSNINSUFFICIENTSPACE | "10" Reason: Unknown hardware error: Call IBM Service. |
| 900 | (384) | X'C' | 0 | CONARSNREBLDOTHER | "11" Reason: There was not sufficient space in the facility to allocate the structure. ConaFacilityMinReqSize is set to the minimum storage required to allocate the structure in this facility with the requested attributes. Action: Make sure there is a facility in the preference list with sufficient space. |
| 900 | (384) | X'D' | 0 | CONARSNREBLDUSERSTOOSMALL | "12" Reason: Location= other was specified on rebuild request or defaulted to for STARTREASON=LOSSCONN or REQUEST=STARTDUPLEX requests. Since the original structure was allocated in this facility, this facility was not used when trying to allocate the new structure for rebuild. Action: Make sure there is another suitable facility in the preference list. |
| 900 | (384) | X'E' | 0 | CONARSNINSUFFCONNECTIVITY | "13" Reason: Facility was not selected for a rebuild connect request because the facility does not support a number of users greater than or equal to the highest connection ID for the original structure. |
| 900 | (384) | X'F' | 0 | CONARSNPREFERRED CFSELECTED | "14" Reason: Facility was not selected because it did not provide the required facility connectivity, as specified by the CONNECTIVITY= specification. |
| 900 | (384) | X'10' | 0 | CONARSNREBLDDUPLEXOTHER | "15" Reason: Facility was not selected because a more preferable facility was already selected |
| 900 | (384) | X'11' | 0 | CONARSNFACILITYPOPCFNOTSUITABLE | "16" Reason: A previous duplexing rebuild was stopped by an operator, the CFRM policy specified DUPLEX(ENABLED) for this structure and CFRM reduplexed (or attempted to reduplex) the structure. It could not be placed in this facility because the operator requested that it be moved out of the facility by stopping the previous rebuild. Action: Make sure there is another suitable facility in the preference list. |
| 900 | (384) | X'12' | 0 | CONARSNIMPLIEDREBLDOTHER | "17" Reason: Facility was not selected because it was not as suitable a location for the structure, as its current location |
| 900 | (384) | X'13' | 0 | CONARSNINSUFFCFLEVELUSER | "18" Reason: Facility was not selected because it holds the rebuild old structure, and since there is no policy chg pending, the rebuild assumes that a MOVE of the structure is required |
| 900 | (384) | X'14' | 0 | CONARSNINSUFFCFLEVELMVS | "19" Reason: The coupling facility CFLEVEL was not at or above the minimum required for an original connector or for the current set of active and failed-persistent rebuild connectors. |
| 900 | (384) | X'15' | 0 | CONARSNINSUFFUSERLIMIT | "20" Reason: Facility was not at or above the minimum required CF level to support the MVS managed process doing the rebuild. |
| 900 | (384) | X'16' | 0 | CONARSNSTRLIMITSTOOSMALL | "21" Reason: Facility was not selected because it does not support as many connectors as its current location. |
| | | | | | "22" Reason: Facility was not selected because its structure limits (e.g., number of castout classes, storage classes, list headers, or lock users) are less than those in use in the old structure |

IXLYCONA Map

| Offsets | | | | | |
|---------|-------|------------|-----|----------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 900 | (384) | X'17' | 0 | CONARSNBADALLOCATERESULTS | "23" Reason: An attempt to allocate a structure in the facility resulted in a structure with attributes (e.g., size or object counts) less suitable than the old structure |
| 900 | (384) | X'18' | 0 | CONARSNCOMPUTEDSIZEINVALID | "24" Reason: When the structure size was computed from the required object counts (eg. entries, elements, list headers, etc), the operation failed, or it returned a computed maximum structure size that was larger than the policy-specified SIZE value, plus a toleration amount. |
| 900 | (384) | X'19' | 0 | CONARSNNOPEERCONNPRISEC | "25" Reason: For a system-managed duplexing rebuild, the CF containing the rebuild old structure did not have connectivity (via CF-to-CF link) to this CF. |
| 900 | (384) | X'1A' | 0 | CONARSNNOPEERCONNSECPRI | "26" Reason: For a system-managed duplexing rebuild, this CF did not have connectivity (via CF-to-CF link) to the CF containing the Rebuild old structure. |

Comment

Constants for ConaRebuildPhase

End of Comment

| | | | | | |
|-----|-------|--------|---|--------------------------|---|
| 900 | (384) | X'1' | 0 | CONAREBUILDPHASEQUIESCE | "1" The structure is in the Rebuild Quiesce phase. The connector will not receive the rebuild quiesce event. The connector is responsible for responding with IXLEERSP REBLDQUIESCE. |
| 900 | (384) | X'2' | 0 | CONAREBUILDPHASECONNECT | "2" The structure is in the Rebuild Connect phase. The connector will not receive the rebuild quiesce event nor the rebuild connect event. The connector is responsible for issuing IXLCONN REBUILD and responding with IXLREBLD COMPLETE. |
| 900 | (384) | X'5' | 0 | CONAREBUILDPHASEDUPESTAB | "5" The structure is in the Duplexing Established phase. The connector will not receive the rebuild quiesce event nor the rebuild connect event nor the rebuild duplex established event. The connector is responsible for issuing IXLCONN REBUILD. The connector is not required to issue IXLREBLD COMPLETE. If ConaRebuildDuplexSwitch is also on, then the connector is responsible for issuing IXLREBLD DUPLEXCOMPLETE. |
| 900 | (384) | X'3A8' | 0 | CONA_LEN | "*-CONA" |

| Offsets | | | | | |
|---------|------|------------------------|-----|---------------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | CONALOCKATTR | |
| 0 | (0) | BITSTRING 1... | 1 | CONALOCKFLAGS CONALOCKRECORD | "X'80" 0 => No record entries, 1 => record entries allocated |
| 1 | (1) | CHARACTER | 3 | | Reserved |
| 4 | (4) | SIGNED | 4 | CONALOCKNUMUSERS | Number of users supported. |
| 8 | (8) | SIGNED | 4 | CONALOCKENTRIES | Number of lock entries. |
| 12 | (C) | SIGNED | 4 | CONALOCKRECORDELEMENTS | Actual number of record elements in use at the time of connect. Valid only if record elements are present in the structure |
| 16 | (10) | SIGNED | 4 | CONALOCKMAXRECORDELEMENTS | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-----------------------------|---|
| Dec | Hex | | | | |
| 16 | (10) | X'14' | 0 | CONALOCKATTR_LEN | Max number of record elements supported by the structure. Valid only if record elements are present in the structure. This count is only substantially accurate. Connectors must not rely on exactly this number of record data elements being available for use. **-CONALOCKATTR" |
| Offsets | | Type/Value | Len | Name (Dim) | Description |
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | CONALISTATTR | |
| 0 | (0) | BITSTRING | 1 | CONALISTFLAGS | |
| | | 1... | | CONALISTCONTROL | "X'80" 0 => List counts kept on an entry basis, 1 => List counts kept on an element basis. |
| | | .1.. | | CONALISTLOCK | "X'40" 0 => No Lock entries, 1 => Lock entries |
| | | ..1. | | CONALISTDATA | "X'20" 0 => No data elements, 1 => data elements |
| | | ...1 | | CONALISTADJ | "X'10" 0 => No adjunct, 1 => adjunct |
| | | 1... | | CONALISTNAMESUPPORT | "X'08" 0 => No Name support, 1 => Name support. |
| | |1.. | | CONALISTKEYSUPPORT | "X'04" 0 => No Key support, 1 => Key Support. |
| | |1. | | CONALISTSECONDARYKEYSUPPORT | "X'02" 0 ==> No secondary key support 1 ==> secondary key support CFLEVEL >= 9 |
| 1 | (1) | CHARACTER | 1 | | Reserved |
| 2 | (2) | SIGNED | 1 | CONALISTELEMCRNUM | Data element increment number. The data element size is determined from the following formula: 256 times CONALISTELEMCRNUM. Valid only if data elements are supported by the structure |
| 3 | (3) | SIGNED | 1 | CONALISTELEMCHAR | Data element characteristic. The data element size is determined from the following formula: 256 times (2 to the power of CONALISTELEMCHAR). Valid only if data elements are supported by the structure |
| 4 | (4) | SIGNED | 4 | CONALISTMAXELEMNUM | Maximum number of data elements per entry. Valid only if data elements are supported by the structure. |
| 8 | (8) | SIGNED | 4 | CONALISTHEADERS | List header count |
| 12 | (C) | SIGNED | 4 | CONALISTLOCKENTRIES | Number of lock entries |
| 16 | (10) | SIGNED | 4 | CONALISTELEMENTCOUNT | Number of data elements in use at the time of connect. Valid only if data elements are supported by the structure. |
| 20 | (14) | SIGNED | 4 | CONALISTMAXELEMENTCOUNT | Max number of data elements supported by the structure. Valid only if data elements are supported by the structure. This count is only substantially accurate. Connectors must not rely on exactly this number of elements being available for use. |
| 24 | (18) | SIGNED | 4 | CONALISTENTRYCOUNT | Number of entries in use at the time of connect. |
| 28 | (1C) | SIGNED | 4 | CONALISTMAXENTRYCOUNT | Max number of entries supported by the structure. This count is only substantially accurate. Connectors must not rely on exactly this number of entries being available for use. |
| 32 | (20) | SIGNED | 4 | CONALISTEMCCOUNT | Number of Event Monitor Controls objects in use at time of connect. Applicable only to keyed list structure allocated in a coupling facility that supports CFLEVEL 3 or higher. |
| 36 | (24) | SIGNED | 4 | CONALISTMAXEMCCOUNT | |

IXLYCONA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------------------|-----|------------------------------------|---|
| Dec | Hex | | | | |
| 36 | (24) | X'28' | 0 | CONALISTATTR_LEN | Maximum possible number of Event Monitor Controls objects in the structure. Applicable only to keyed list structure allocated in a coupling facility that supports CFLEVEL 3 or higher. "-CONALISTATTR" |
| | | | | | |
| Offsets | | Type/Value | Len | Name (Dim) | Description |
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | CONACACHEATTR | |
| 0 | (0) | SIGNED | 4 | CONACACHEDIRENTRYCOUNT | Directory entry count. Count of the number of entries supported in this structure. This count is only substantially accurate. Connectors must not rely on exactly this number of entries being available for use. |
| 4 | (4) | SIGNED | 4 | CONACACHEMAXELEMENTCOUNT | Max number of data elements supported by the structure. Nonzero only if data elements are supported by the structure. This count is only substantially accurate. Connectors must not rely on exactly this number of elements being available for use. |
| 8 | (8) | BITSTRING 1... | 1 | CONACACHEFLAGS CONACACHEADJUNCT | "X'80" 0 => No adjunct, 1 => adjunct |
| | | .1... | | CONACACHEUDFORDER | "X'40" 0 => No UDF order queue, 1 => UDF order queue is maintained for each castout class. This information is returned only when the structure is allocated in a CFLEVEL 5 or higher facility. |
| 9 | (9) | SIGNED | 1 | CONACACHEMAXSTGCLASS | Maximum storage class value |
| 10 | (A) | SIGNED | 2 | CONACACHEMAXCOCLASS | Maximum castout-class value |
| 12 | (C) | SIGNED | 1 | CONACACHEELEMCHAR | Data element characteristic. The data element size is determined from the following formula: 256 times (2 to the power of CONACACHEELEMCHAR). Valid only if data elements are supported by the structure |
| 13 | (D) | SIGNED | 1 | CONACACHEELEMINCRNUM | Data element increment number. The data element size is determined from the following formula: 256 times CONACACHEELEMINCRNUM. Valid only if data elements are supported by the structure |
| 14 | (E) | BITSTRING | 2 | CONACACHENAMECLASSMASK | Name class mask. Applicable only to structures allocated in a CFLEVEL=7 or higher coupling facility |
| 16 | (10) | SIGNED | 4 | CONACACHEMAXELEMNUM | Maximum number of data elements per entry. Valid only if data elements are supported by the structure |
| 20 | (14) | SIGNED | 4 | CONACACHECHGDIRENTRYCOUNT | Count of total changed directory entries. This information is returned only when the structure is allocated in a CFLEVEL 1 or higher facility. |
| 24 | (18) | SIGNED | 4 | CONACACHECHGDIRELEMENTCOUNT | Count of total changed data elements. This information is returned only when the structure is allocated in a CFLEVEL 1 or higher facility. |
| 24 | (18) | X'1C' | 0 | CONACACHEATTR_LEN | "*-CONACACHEATTR" |

IXLYCONA Cross Reference

| Name | Hex Offset | Hex Value |
|-----------------------------|------------|-----------|
| CONA | 0 | |
| CONA_LEN | 384 | 3A8 |
| CONAACCESSTIME | 74 | |
| CONAACCESSTIMEFLAGS | 77 | |
| CONAACCESSTIMENOLIMIT | 77 | 80 |
| CONAALLOCREQUESTEDSTRSIZE | A8 | |
| CONAALTERELEMENTRATIO | 12A | |
| CONAALTEREMCSTG | 120 | 10 |
| CONAALTEREMCSTGPCT | 130 | |
| CONAALTERENTRYRATIO | 128 | |
| CONAALTERFLAGS | 120 | |
| CONAALTERINFO | 120 | |
| CONAALTERINPROGRESS | 50 | 8 |
| CONAALTERMINELEMENT | 12D | |
| CONAALTERMINEMC | 12E | |
| CONAALTERMINENTRY | 12C | |
| CONAALTERRATIO | 120 | 40 |
| CONAALTERRATIOCHG | 120 | 20 |
| CONAALTERSIZE | 120 | 80 |
| CONAALTERTARGETSIZE | 124 | |
| CONACACHEADJUNCT | 8 | 80 |
| CONACACHEATTR | 0 | |
| CONACACHEATTR_LEN | 18 | 1C |
| CONACACHECHGDIRELEMENTCOUNT | 18 | |
| CONACACHECHGDIRENTRYCOUNT | 14 | |
| CONACACHEDIRENTRYCOUNT | 0 | |
| CONACACHEEELEMCHAR | C | |
| CONACACHEEELEMINCRNUM | D | |
| CONACACHEFLAGS | 8 | |
| CONACACHEMAXCOCLASS | A | |
| CONACACHEMAXELEMENTCOUNT | 4 | |
| CONACACHEMAXELEMNUM | 10 | |
| CONACACHEMAXSTGCLASS | | |

| Name | Hex Offset | Hex Value |
|--------------------------------|------------|-----------|
| CONACACHENAMECLASSMASK | 9 | |
| CONACACHEUDFORDER | E | |
| CONACFACILITYCFLEVEL | 8 | 40 |
| CONACFACILITYFREECONTROLSPACE | 34C | |
| CONACFACILITYFREESPACE | 344 | |
| CONACFACILITYINFO | 340 | |
| CONACFACILITYMAXCASTOUTCLASS | 338 | |
| CONACFACILITYMAXELEMCHAR | 362 | |
| CONACFACILITYMAXLISTHEADER | 34A | |
| CONACFACILITYMAXLOCKUSERS | 35C | |
| CONACFACILITYMAXSTORAGECLASS | 361 | |
| CONACFACILITYNAME | 350 | |
| CONACFACILITYSTORAGEINCREMENT | 348 | |
| CONACFACILITYTOTALCONTROLSPACE | 33C | |
| CONACFACILITYTOTALSPACE | 338 | |
| CONACFACILITYUSERLIMIT | 34B | |
| CONACLEARLTBYXESFLAGS | 78 | |
| CONACLEARLTBYXESINFO | 78 | |
| CONACLEARLTBYXESVALID | 78 | 80 |
| CONACONID | 4C | |
| CONACONNALLOC | 54 | 40 |
| CONACONNAME | 14 | |
| CONACONNECTIONVERSION | 48 | |
| CONACONNECTORCONNECTIVITY | 54 | 20 |
| CONACONTOKEN | 4 | |
| CONADIAG0 | 34 | |
| CONADIAG1 | 38 | |
| CONADIAG10 | 374 | |
| CONADIAG11 | 380 | |
| CONADIAG2 | 3C | |
| CONADIAG3 | 17C | |
| CONADIAG4 | 180 | |
| CONADIAG5 | 184 | |
| CONADIAG6 | 364 | |
| CONADIAG7 | 368 | |
| CONADIAG8 | 36C | |
| CONADIAG9 | 370 | |
| CONADISCFALLEDCONFSTRING | 134 | |
| CONADISCFAILINGSTRING | | |

IXLYCONA Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|-------------------------------|------------|-----------|-------------------------------|------------|-----------|
| | 7C | | | 2 | |
| CONAFACILITY | 158 | | CONALISTEMCCOUNT | | |
| CONAFACILITYARRAY | | | | 20 | |
| | 154 | | CONALISTENTRYCOUNT | | |
| CONAFACILITYCFLEVEL | | | | 18 | |
| | 188 | | CONALISTFLAGS | | |
| CONAFACILITYCOUNT | | | | 0 | |
| | 154 | | CONALISTHEADERS | | |
| CONAFACILITYENTRY | | | | 8 | |
| | 158 | | CONALISTKEYSUPPORT | | |
| CONAFACILITYFREECONTROLSPACE | | | | 0 | 4 |
| | 174 | | CONALISTLOCK | 0 | 40 |
| CONAFACILITYFREESPACE | | | CONALISTLOCKENTRIES | | |
| | 170 | | | C | |
| CONAFACILITYINFO | | | CONALISTMAXELEMENTCOUNT | | |
| | 168 | | | 14 | |
| CONAFACILITYINFODIAG | | | CONALISTMAXELEMNUM | | |
| | 17C | | | 4 | |
| CONAFACILITYINFOLIMITS | | | CONALISTMAXEMCCOUNT | | |
| | 18C | | | 24 | |
| CONAFACILITYINFOSPACE | | | CONALISTMAXENTRYCOUNT | | |
| | 168 | | | 1C | |
| CONAFACILITYMAXCASTOUTCLASS | | | CONALISTNAMESUPPORT | | |
| | 192 | | | 0 | 8 |
| CONAFACILITYMAXELEMCHAR | | | CONALISTSECONDARYKEYSUPPORT | | |
| | 17A | | | 0 | 2 |
| CONAFACILITYMAXLISTHEADER | | | CONALOCKATTR | 0 | |
| | 18C | | CONALOCKATTR_LEN | | |
| CONAFACILITYMAXLOCKUSERS | | | | 10 | 14 |
| | 191 | | CONALOCKENTRIES | | |
| CONAFACILITYMAXSTORAGECLASS | | | | 8 | |
| | 190 | | CONALOCKFLAGS | | |
| CONAFACILITYMINREQSIZE | | | | 0 | |
| | 164 | | CONALOCKMAXRECORDELEMENTS | | |
| CONAFACILITYNAME | | | | 10 | |
| | 158 | | CONALOCKNUMUSERS | | |
| CONAFACILITYYRSNCODE | | | | 4 | |
| | 160 | | CONALOCKRECORD | | |
| CONAFACILITYSTORAGEINCREMENT | | | | 0 | 80 |
| | 178 | | CONALOCKRECORDELEMENTS | | |
| CONAFACILITYTOTALCONTROLSPACE | | | | C | |
| | 16C | | CONALOGICALSTRUCTUREVERSION | | |
| CONAFACILITYTOTALSPACE | | | | AC | |
| | 168 | | CONAMAXSTRUCTURESIZE | | |
| CONAFACILITYUSERLIMIT | | | | 60 | |
| | 17B | | CONAMINSTRUCTURESIZE | | |
| CONAFAILUREISOLATED | | | | 9C | |
| | 54 | 2 | CONAMVSRELEASEMAXCFLEVEL | | |
| CONAFLAGS | 50 | | | A4 | |
| CONAFPCONNSNOTINPOLICY | | | CONANOTFULLCONNECTIVITY | | |
| | A0 | | | 54 | 8 |
| CONAIGNOREDEXCLUSIONLIST | | | CONAPHYSICALSTRUCTUREVERSION | | |
| | 54 | 10 | | 40 | |
| CONALISTADJ | 0 | 10 | CONAPHYSICALSTRUCTUREVERSION2 | | |
| CONALISTATTR | 0 | | | 378 | |
| CONALISTATTR_LEN | | | CONAREBUILD | 50 | 40 |
| | 24 | 28 | CONAREBUILDCART | | |
| CONALISTCONTROL | | | | 104 | |
| | 0 | 80 | CONAREBUILDCONSID | | |
| CONALISTDATA | 0 | 20 | | 10C | |
| CONALISTELEMCHAR | | | CONAREBUILDDUPLEX | | |
| | 3 | | | FA | 40 |
| CONALISTELEMENTCOUNT | | | CONAREBUILDDUPLEXSWITCH | | |
| | 10 | | | FA | 20 |
| CONALISTELEMINCRNUM | | | CONAREBUILDFLAGS | | |

| Name | Hex Offset | Hex Value |
|---------------------------------|------------|-----------|
| CONAREBUILDFPCONNS | FA | |
| CONAREBUILDINFO | FA | 80 |
| CONAREBUILDPCLOSSCONN | F8 | |
| CONAREBUILDPHASE | FB | |
| CONAREBUILDPHASECONNECT | 110 | |
| CONAREBUILDPHASEDUPESTAB | 384 | 2 |
| CONAREBUILDPHASEQUIESCE | 384 | 5 |
| CONAREBUILDSTARTREASON | 384 | 1 |
| CONAREBUILDSTOP | F8 | |
| CONAREBUILDSTOPREASON | 50 | 20 |
| CONARECONNECTATTEMPT | F9 | |
| CONARECONNECTED | 78 | 40 |
| CONARSNALLOCNOTPERMITTED | 50 | 80 |
| CONARSNBADALLOCATERESULTS | 384 | 8 |
| CONARSNCOMPUTEDSIZEINVALID | 384 | 17 |
| CONARSNFACILITYFAILURE | 384 | 18 |
| CONARSNFACILITYNOTINPOLICY | 384 | 4 |
| CONARSNFACILITYPOPCFNOTSUITABLE | 384 | 2 |
| CONARSNIMPLIEDREBLDOTHER | 384 | 11 |
| CONARSNINSUFFCFLEVELMVS | 384 | 12 |
| CONARSNINSUFFCFLEVELUSER | 384 | 14 |
| CONARSNINSUFFCONNECTIVITY | 384 | 13 |
| CONARSNINSUFFICIENTSPACE | 384 | E |
| CONARSNINSUFFUSERLIMIT | 384 | B |
| CONARSNINVALIDSTRUCTURESIZE | 384 | 15 |
| CONARSNNOCONN | 384 | 7 |
| CONARSNNOCONNPOLICY | 384 | 3 |
| CONARSNNOPEERCONNPRISEC | 384 | 1 |
| CONARSNNOPEERCONNSECPRI | 384 | 19 |
| CONARSNPARAMETERERROR | 384 | 1A |
| CONARSNPREFERREDCFSELECTED | 384 | 6 |
| CONARSNREBLDDUPLEXOTHER | 384 | F |
| | 384 | 10 |

| Name | Hex Offset | Hex Value |
|--------------------------------|------------|-----------|
| CONARSNREBLDOTHER | 384 | C |
| CONARSNREBLDUSERSTOOSMALL | 384 | D |
| CONARSNSTRFAILURE | 384 | 5 |
| CONARSNSTRLIMITSTOOSMALL | 384 | 16 |
| CONARSNSUCCESS | 384 | 0 |
| CONARSNUNKNOWN | 384 | A |
| CONARSNXCFCOMPERROR | 384 | 9 |
| CONASTARTRSNCNECTORCODE | FC | |
| CONASTOPRSNCNECTORCODE | 100 | |
| CONASTRUCTUREATTRFLAGS | 54 | |
| CONASTRUCTUREATTRFLAGSB1 | 54 | |
| CONASTRUCTUREATTRFLAGSB2 | 55 | |
| CONASTRUCTUREATTRFLAGSB3 | 56 | |
| CONASTRUCTUREATTRFLAGSB4 | 57 | |
| CONASTRUCTUREATTRIBUTES | B8 | |
| CONASTRUCTUREDISP | 54 | 80 |
| CONASTRUCTURESIZE | 5C | |
| CONASTRUCTURESMDUPESTAB | 56 | 80 |
| CONASTRUCTURETYPE | 58 | |
| CONASTRUCTUREVERSION | 40 | |
| CONASYSMGDDUPLEXED | 55 | 80 |
| CONASYSMGDDUPLEXEDFAILISOL | 55 | 40 |
| CONAUNIONAREA1 | 78 | |
| CONAUSERSYNCPOLYEVENT | 78 | |
| CONAUSERSYNCPOLYPOINTINFO | 78 | |
| CONAUSERSYNCPOLYPOINTUSERSTATE | 7C | |
| CONAUSYNCEVENTSET | 50 | 10 |
| CONAVECTORLEN | 70 | |
| CONAVECTORTOKEN | 64 | |
| CONAVOLATILE | 54 | 4 |

IXLYCRRB Programming Interface information

Programming Interface information

IXLYCRRB

End of Programming Interface information

IXLYCRRB Heading Information

Common Name: Cache Register Name List Registration Block
Macro ID: IXLYCRRB
DSECT Name: CRRB
Owning Component: Cross System Extended Services (SCIXL)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: User supplied
 Key: User supplied
 Residency: User supplied
Size: 64 bytes
Created by: IXLCACHE invoker
Pointed to by: BUFFER or BUFLIST parameter on IXLCACHE
Serialization: See BUFFER and BUFLIST parameter requirements on the IXLCACHE interface description.
Function: The CRRB maps the registration blocks provided when the IXLCACHE macro is issued for a REG_NAMELIST request.

IXLYCRRB Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------------------|-----|---------------------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | CRRB | Cache Register Name List Registration Block |
| 0 | (0) | SIGNED | 1 | CRRBSTGCLASS | Storage class to which the entry named in this registration block should be assigned. |
| 1 | (1) | BITSTRING 1... | 1 | CRRBFLAGS (0) CRRBASSIGNCNTL | Flag byte "X'80" Assignment Control 1 ==> A directory entry should be assigned for the entry named in this registration block, if one does not currently exist 0 ==> A directory entry should not be assigned if one does not currently exist |
| | | .1... | | CRRBNAMEREPLACECNTL | "X'40" Name-Replacement Control 1 ==> Any registered interest for the specified local cache vector index and the entry specified by CrrbOldName in this registration block will be deregistered 0 ==> No deregistration of interest for the entry specified by CrrbOldName will be performed |
| 2 | (2) | CHARACTER | 14 | | Reserved |
| 16 | (10) | CHARACTER | 16 | CRRBNAME | Directory Entry Name |
| 32 | (20) | CHARACTER | 16 | CRRBOLDNAME | Old Name. When CrrbNameReplaceCntl is one and CrrbName and CrrbOldName are not equal, interest will be deregistered in the directory entry designated by CrrbOldName for the CrrbVectorIndex prior to registering interest in the entry designated by CrrbName. |
| 48 | (30) | SIGNED | 4 | CRRBVECTORINDEX | Local Cache Vector Index |
| 52 | (34) | CHARACTER | 12 | | Reserved |
| 64 | (40) | CHARACTER | 1 | CRRBEND (0) | End of CRRB |
| 64 | (40) | X'40' | 0 | CRRB_LEN | "*-CRRB" |

IXLYCRRB Cross Reference

| Name | Hex Offset | Hex Value |
|---------------------|-----------------------|----------------------|
| CRRB | 0 | |
| CRRB_LEN | 40 | 40 |
| CRRBASSIGNCNTL | 1 | 80 |
| CRRBEND | 40 | |
| CRRBFLAGS | 1 | |
| CRRBNAME | 10 | |
| CRRBNAMEREPLACECNTL | 1 | 40 |
| CRRBOLDNAME | 20 | |
| CRRBSTGCLASS | 0 | |
| CRRBVECTORINDEX | 30 | |

IXLYCSCS Programming Interface information

Programming Interface information

IXLYCSCS

End of Programming Interface information

IXLYCSCS Heading Information

Common Name: Cache Storage Class Statistics - CSCS
Macro ID: IXLYCSCS
DSECT Name: CSCS
Owning Component: Cross System Extended Services (SCIXL)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: User supplied
 Key: User supplied
 Residency: User supplied
Size: 256 bytes
Created by: Storage area created by IXLCACHE invoker
Pointed to by: STGSTATS parameter on IXLCACHE
Serialization: See STGSTATS parameter requirements on the IXLCACHE interface description.
Function: The CSCS maps the information returned from the IXLCACHE macro for a READ_STGSTATS request.

IXLYCSCS Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | CSCS | Cache storage class statistics |
| 0 | (0) | SIGNED | 4 | CSCSREADHITC | Read hit counter. Number of times data was returned on a read request. |
| 4 | (4) | SIGNED | 4 | CSCSRMDIRHITC | Read miss, directory hit counter. Number of times a read request found the entry assigned to the cache, but no data was present to read |
| 8 | (8) | SIGNED | 4 | CSCSRMASSUPRC | Read miss, assignment suppressed counter. Number of times a read request failed to find the entry in the cache, and assignment of the entry name was not requested. |
| 12 | (C) | SIGNED | 4 | CSCSRMNAMEASC | Read miss, name assigned counter. Number of times a read request failed to find the requested entry in the cache, and a directory entry was successfully assigned for the name. |
| 16 | (10) | SIGNED | 4 | CSCSRMTSCFULLC | Read miss, target storage class full counter. Number of times a read request failed to find the requested entry in the cache, and a directory entry could not be assigned to the name due to insufficient resources in the target storage class. |
| 20 | (14) | SIGNED | 4 | CSCSWHITCB0C | Write hit change Bit 0 ctr. Number of times a write request successfully wrote unchanged data to the cache. |
| 24 | (18) | SIGNED | 4 | CSCSWHITCB1C | Write hit change Bit 1 ctr. Number of times a write request successfully wrote changed data to the cache. |
| 28 | (1C) | SIGNED | 4 | CSCSWMNOTREGC | Write miss, not registered counter. Number of times a write request with WHENREG=YES could not be processed because the user did not have registered interest in the entry, or did not have registered interest in the entry with the correct local vector index. |
| 32 | (20) | SIGNED | 4 | CSCSWMINVSTATEC | Write miss, invalid state counter. Number of times a write request could not be processed due to an incompatible entry state. |
| 36 | (24) | SIGNED | 4 | CSCSWMTSCFULLC | Write miss, target storage class full counter. Number of times a write request could not be processed due to insufficient resources in the target storage class. |
| 40 | (28) | SIGNED | 4 | CSCSDIRENTRYRCLC | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|-----------------|--|
| Dec | Hex | | | | |
| | | | | | Directory entry reclaim counter. Number of times a request associated with this storage class performed a directory entry reclaim. |
| 44 | (2C) | SIGNED | 4 | CSCSDAENTRCLC | |
| | | | | | Data entry reclaim counter. Number of times a request associated with this storage class performed a data area reclaim. |
| 48 | (30) | SIGNED | 4 | CSCSXIDIRRLCLC | |
| | | | | | XI directory reclaim counter. Number of XIs issued as a result of a directory entry reclaim. |
| 52 | (34) | SIGNED | 4 | CSCSXIWRIEETC | |
| | | | | | XI write counter. Number of XIs issued as a result of a write request. |
| 56 | (38) | SIGNED | 4 | CSCSXINMINVALC | |
| | | | | | XI name invalidation counter. Number of XIs issued as a result of a DELETE_NAME request. |
| 60 | (3C) | SIGNED | 4 | CSCSXICMINVALC | |
| | | | | | XI complement invalidation counter. Number of XIs issued as a result of a CROSS_INVAL request. |
| 64 | (40) | SIGNED | 4 | CSCSCASTOUTC | |
| | | | | | Castout Counter. Number of castout operations performed against entries in this storage class. |
| 68 | (44) | SIGNED | 4 | CSCSREFSIGMISSC | |
| | | | | | Reference signal miss counter. Number of times a name specified on a PROCESS_REFLIST request was not associated with the storage class. |
| 72 | (48) | SIGNED | 4 | CSCSTMCFULLC | |
| | | | | | Target storage class full counter. Number of times a request was unable to reclaim a directory entry or data resources from this storage class. |
| 76 | (4C) | SIGNED | 4 | CSCSDIRENTRYC | |
| | | | | | Directory entry counter. Number of cache directory entries currently assigned to this storage class. |
| 80 | (50) | SIGNED | 4 | CSCSDATAAREALEC | |
| | | | | | Data area element counter. Number of cache data elements associated with entries that are currently assigned to this storage class. |
| 84 | (54) | SIGNED | 4 | CSCSTOTCHNGDC | |
| | | | | | Total changed counter. Number of directory entries assigned to this storage class which are currently changed or locked-for-castout. |
| 88 | (58) | SIGNED | 4 | CSCSDATAAREAC | |
| | | | | | Data area counter. The number of directory entries assigned to this storage class which have data associated with them (see CscsDatAreaEleC to understand the total amount of data these entries contain). |
| 92 | (5C) | SIGNED | 4 | CSCSCMPLREFLSTC | |
| | | | | | Completed reference lists counter. Number of times a PROCESS_REFLIST command was completed. |
| 96 | (60) | SIGNED | 4 | CSCSPRTCREFLSTC | |
| | | | | | Partially completed reference lists counter. Number of times a PROCESS_REFLIST command was partially completed. |
| 100 | (64) | SIGNED | 4 | CSCSXILCVIREPL | |
| | | | | | XI for local cache vector index replacement. Number of XIs issued as a result of replacement of a registered local cache vector index with a more current local cache vector index. |
| 104 | (68) | SIGNED | 4 | CSCSWUXIC | |
| | | | | | Write unchanged with XI counter. Number of successful write requests which specified CROSSINVAL=YES. |
| 108 | (6C) | CHARACTER | 148 | | Reserved |
| 256 | (100) | CHARACTER | 1 | CSCSEND (0) | End of CSCS |
| 256 | (100) | X'100' | 0 | CSCS_LEN | ""-CSCS" |

IXLYCSCS Cross Reference

IXLYCSCS Cross Reference

| Name | Hex Offset | Hex Value |
|------------------|---------------|--------------|
| CSCS | 0 | |
| CSCS_LEN | 100 | 100 |
| CSCSCASTOUTC | 40 | |
| CSCSCMPLREFLSTC | 5C | |
| CSCSDAENTRCLC | 2C | |
| CSCSDATAAREAC | 58 | |
| CSCSDATAAREAELEC | 50 | |
| CSCSDIRENTRYC | 4C | |
| CSCSDIRENTRYRCLC | 28 | |
| CSCSEND | 100 | |
| CSCSPRTCREFLSTC | 60 | |
| CSCSREADHITC | 0 | |
| CSCSREFSIGMISSC | 44 | |
| CSCSRMASSUPRC | 8 | |
| CSCSRMDIRHITC | 4 | |
| CSCSRMNAMEASC | C | |
| CSCSRMTSCFULLC | 10 | |
| CSCSTMCFULLC | 48 | |
| CSCSTOTCHNGDC | 54 | |
| CSCSWHITCB0C | 14 | |
| CSCSWHITCB1C | 18 | |
| CSCSWMINVSTATEC | 20 | |
| CSCSWMNOTREGC | 1C | |
| CSCSWMTSCFULLC | 24 | |
| CSCSWUXIC | 68 | |
| CSCSXICMINVALC | 3C | |
| CSCSXIDIRRCLC | 30 | |
| CSCSXILCVIREPL | 64 | |
| CSCSXINMINVALC | 38 | |
| CSCSXIWRITEC | 34 | |

IXLYCSPA Programming Interface information

Programming Interface information

IXLYCSPA

End of Programming Interface information

IXLYCSPA Heading Information

Common Name: IXLCSP Request Answer Area
Macro ID: IXLYCSPA
DSECT Name: CSPA
Owning Component: Cross System Extended Services (SCIXL)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: User supplied
 Key: User supplied
 Residency: User supplied
Size: 256 bytes
 CSPA -- X'0100' bytes
Created by: Invoker of IXLCSP service.
Pointed to by: ANSAREA parameter on IXLCSP
Serialization: NONE
Function: Maps the answer area output from IXLCSP requests

IXLYCSPA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | CSPA | IXLCSP answer area |
| 0 | (0) | CHARACTER | 32 | CSPA_HEADER (0) | Header information |
| 0 | (0) | SIGNED | 2 | CSPA_VERSION | IXLYCSPA version number |
| 2 | (2) | SIGNED | 2 | CSPA_LENGTH | Length of the answer area |
| 4 | (4) | SIGNED | 2 | CSPA_OFFSET | Offset from the beginning of the structure (CSPA) to the answer area data (CSPA_Data) |
| 6 | (6) | CHARACTER | 26 | | Reserved |
| 32 | (20) | CHARACTER | 224 | CSPA_DATA (0) | Data returned by IXLCSP |
| 32 | (20) | CHARACTER | 64 | CSPA_COMMONDATA (0) | Data common to all IXLCSP requests |
| 32 | (20) | SIGNED | 4 | CSPA_STRSIZE | Structure size |
| 36 | (24) | SIGNED | 4 | CSPA_MAXSIZE | Maximum structure size |
| 40 | (28) | SIGNED | 4 | CSPA_MINSIZE | Minimum structure size |
| 44 | (2C) | SIGNED | 4 | CSPA_MARGINALSIZE | Marginal structure size |
| 48 | (30) | SIGNED | 4 | CSPA_MRCS | Minimum required control storage |
| 52 | (34) | SIGNED | 2 | CSPA_DIAGNOSTICCODE | Diagnostic code. Set only when IXLCSP RC='08'x, and RSN is one of the following values: 'xxxx0881'x, 'xxxx088C'x, 'xxxx088E'x. Constants for the diagnostic codes when RSN='xxxx088C'x are defined below. Diagnostic codes for the other reasons are defined in IXLYCON. |
| 54 | (36) | SIGNED | 2 | | Reserved. |
| 56 | (38) | SIGNED | 4 | CSPA_ACTUALCFLEVEL | CFLEVEL of designated coupling facility. Valid for use if not zero. |
| 60 | (3C) | SIGNED | 4 | CSPA_NEEDEDCCFLEVEL | The CFLEVEL supported by the designated coupling facility must be greater than or equal to this value in order to process the compute request. Valid for use if not zero |
| 64 | (40) | CHARACTER | 32 | | Reserved |
| 96 | (60) | CHARACTER | 96 | CSPA_STRTPEDATA (0) | Output data specific to the target structure type |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|-------------------------------|------|------------|-----|-------------------------------------|---|
| Dec | Hex | | | | |
| Comment | | | | | |
| ----- | | | | | |
| CSPA_OutData: Cache structure | | | | | |
| ----- | | | | | |
| End of Comment | | | | | |
| 96 | (60) | CHARACTER | 96 | CSPA_CACHEDATA (0) | Cache-specific output |
| 96 | (60) | SIGNED | 4 | CSPA_CACHEDIRENTRYCOUNT | Number of directory entries that can be contained in the target structure |
| 100 | (64) | SIGNED | 4 | CSPA_CACHEELEMENTCOUNT | Total number of elements that can be contained in the target structure |
| 104 | (68) | SIGNED | 4 | CSPA_CACHEDIRTOELEMENTRATIO (0) | Directory- to-element ratio that could be achieved in the target structure |
| 104 | (68) | SIGNED | 2 | CSPA_CACHEDIRRATIO | Directory part of the directory-to-element ratio |
| 106 | (6A) | SIGNED | 2 | CSPA_CACHEELEMENTRATIO | Element part of the directory-to- element ratio |
| 108 | (6C) | CHARACTER | 84 | | Reserved |
| Comment | | | | | |
| ----- | | | | | |
| CSPA_OutData: List structure | | | | | |
| ----- | | | | | |
| End of Comment | | | | | |
| 96 | (60) | CHARACTER | 96 | CSPA_LISTDATA (0) | List-specific output |
| 96 | (60) | SIGNED | 4 | CSPA_LISTEMCCOUNT | Number of event monitor controls that can be contained in the target structure |
| 100 | (64) | SIGNED | 4 | CSPA_LISTENTRYCOUNT | Number of list entries that can be contained in the target structure |
| 104 | (68) | SIGNED | 4 | CSPA_LISTELEMENTCOUNT | Total number of elements that can be contained in the target structure |
| 108 | (6C) | SIGNED | 2 | CSPA_LISTEMCSTGPCT | Percentage of structure storage over the marginal structure size that can be allocated to event monitor controls in the target structure. Expressed as a decimal number in hundredths of a percent. |
| 110 | (6E) | CHARACTER | 2 | | Reserved |
| 112 | (70) | SIGNED | 4 | CSPA_LISTENTRYTOELEMENTRATIO (0) | Entry- to-element ratio that could be achieved in the target structure |
| 112 | (70) | SIGNED | 2 | CSPA_LISTENTRYRATIO | Entry part of the entry-to-element ratio |
| 114 | (72) | SIGNED | 2 | CSPA_LISTELEMENTRATIO | Element part of the entry-to-element ratio |
| 116 | (74) | CHARACTER | 76 | | Reserved |

IXLYCSPA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---|-------|------------|-----|-------------------------------|--|
| Dec | Hex | | | | |
| Comment | | | | | |
| ----- | | | | | |
| CSPA_OutData: Lock structure | | | | | |
| ----- | | | | | |
| End of Comment | | | | | |
| 96 | (60) | CHARACTER | 96 | CSPA_LOCKDATA (0) | Lock-specific output |
| 96 | (60) | SIGNED | 4 | CSPA_LOCKRDATAENTRYCOUNT | Number of record data entries that can be contained in the target structure |
| 100 | (64) | SIGNED | 4 | CSPA_LOCKENTRIES | Number of lock entries that can be contained in the target structure |
| 104 | (68) | CHARACTER | 88 | | Reserved |
| 192 | (C0) | CHARACTER | 64 | | Reserved |
| 256 | (100) | CHARACTER | 1 | CSPA_END (0) | End IXL CSP answer area |
| 256 | (100) | X'100' | 0 | CSPA_KSIZELEVEL0 | "256" Size in bytes of CSPA at macro level 0 |
| 256 | (100) | X'0' | 0 | CSPA_LEVELNUM | "0" Macro level number |
| Comment | | | | | |
| Constants for CSPA_DiagnosticCode when RSN='xxxx0881'x are defined in IXLYCON. Look for sub-reason codes associated with the constant named IxIRsnCodeBadCfLevel. Constants for CSPA_DiagnosticCode when RSN='xxxx088C'x | | | | | |
| End of Comment | | | | | |
| 256 | (100) | X'4' | 0 | CSPA_BADMAXSIZE | "4" Maximum structure size outside CF limits |
| 256 | (100) | X'6' | 0 | CSPA_BADLISTHEADERS | "6" Number of list headers outside CF limits |
| 256 | (100) | X'7' | 0 | CSPA_BADLISTELEMCHAR | "7" List element characteristic outside CF limits |
| 256 | (100) | X'8' | 0 | CSPA_BADLOCKNUMUSERS | "8" Number of lock structure users outside CF limits |
| 256 | (100) | X'9' | 0 | CSPA_BADLOCKENTRIES | "9" Number of locks outside CF limits |
| 256 | (100) | X'A' | 0 | CSPA_BADLISTMAXELEMNUM | "10" Maximum entry size (maximum number of elements) outside CF limits |
| 256 | (100) | X'B' | 0 | CSPA_BADLISTENTRYTOELEMNRATIO | "11" Entry- to-element ratio (EntryRatio and ElementRatio keywords) outside CF limits |
| 256 | (100) | X'C' | 0 | CSPA_BADLISTENTRYCOUNT | "12" Maximum entry count outside CF limits |
| 256 | (100) | X'D' | 0 | CSPA_BADLISTELEMENTCOUNT | "13" Maximum element count outside CF limits |
| 256 | (100) | X'12' | 0 | CSPA_BADCACHEELEMCHAR | "18" Cache element characteristic outside CF limits |
| 256 | (100) | X'13' | 0 | CSPA_BADCACHENUMCOCLASS | "19" Maximum number of castout classes outside CF limits |
| 256 | (100) | X'14' | 0 | CSPA_BADCACHEMAXELEMNUM | "20" Maximum entry size (maximum number of elements) outside CF limits |
| 256 | (100) | X'15' | 0 | CSPA_BADCACHENUMSTGCLASS | "21" Maximum number of storage classes outside CF limits |
| 256 | (100) | X'16' | 0 | CSPA_BADCACHEDIRTOELEMNRATIO | "22" Directory- to-element ratio (DirRatio and ElementRatio keywords) outside CF limits |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|----------------------------|--|
| Dec | Hex | | | | |
| 256 | (100) | X'17' | 0 | CSPA_BADCACHEDIRENTRYCOUNT | "23" Maximum directory entry count outside CF limits |
| 256 | (100) | X'18' | 0 | CSPA_BADCACHEELEMENTCOUNT | "24" Maximum element count outside CF limits |
| 256 | (100) | X'100' | 0 | CSPA_LEN | **_CSPA" |

IXLYCSPA Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|-------------------------------|------------|-----------|------------------------------|------------|-----------|
| CSPA | 0 | | CSPA_LEN | 100 | 100 |
| CSPA_ACTUALCFLEVEL | 38 | | CSPA_LENGTH | 2 | |
| CSPA_BADCACHEDIRENTRYCOUNT | 100 | 17 | CSPA_LISTDATA | 60 | |
| CSPA_BADCACHEDIRTOELEMRTATIO | 100 | 16 | CSPA_LISTELEMENTCOUNT | 68 | |
| CSPA_BADCACHEELEMENTCHAR | 100 | 12 | CSPA_LISTELEMENTRATIO | 72 | |
| CSPA_BADCACHEELEMENTCOUNT | 100 | 18 | CSPA_LISTEMCCOUNT | 60 | |
| CSPA_BADCACHEMAXELEMNUM | 100 | 14 | CSPA_LISTEMCSTGPCT | 6C | |
| CSPA_BADCACHENUMCOCLASS | 100 | 13 | CSPA_LISTENTRYCOUNT | 64 | |
| CSPA_BADCACHENUMSTGCLASS | 100 | 15 | CSPA_LISTENTRYRATIO | 70 | |
| CSPA_BADLISTELEMCHAR | 100 | 7 | CSPA_LISTENTRYTOELEMENTRATIO | 70 | |
| CSPA_BADLISTELEMENTCOUNT | 100 | D | CSPA_LOCKDATA | 60 | |
| CSPA_BADLISTENTRYCOUNT | 100 | C | CSPA_LOCKENTRIES | 64 | |
| CSPA_BADLISTENTRYTOELEMRTATIO | 100 | B | CSPA_LOCKRDATAENTRYCOUNT | 60 | |
| CSPA_BADLISTHEADERS | 100 | 6 | CSPA_MARGINALSIZE | 2C | |
| CSPA_BADLISTMAXELEMNUM | 100 | A | CSPA_MAXSIZE | 24 | |
| CSPA_BADLOCKENTRIES | 100 | 9 | CSPA_MINSIZE | 28 | |
| CSPA_BADLOCKNUMUSERS | 100 | 8 | CSPA_MRCS | 30 | |
| CSPA_BADMAXSIZE | 100 | 4 | CSPA_NEEDEDCCFLEVEL | 3C | |
| CSPA_CACHEDATA | 60 | | CSPA_OFFSET | 4 | |
| CSPA_CACHEDIRENTRYCOUNT | 60 | | CSPA_STRSIZE | 20 | |
| CSPA_CACHEDIRRATIO | 68 | | CSPA_STRTPEDATA | 60 | |
| CSPA_CACHEDIRTOELEMENTRATIO | 68 | | CSPA_VERSION | 0 | |
| CSPA_CACHEELEMENTCOUNT | 64 | | CSPA_SIZELEVEL0 | 100 | 100 |
| CSPA_CACHEELEMENTRATIO | 6A | | CSPA_LEVELNUM | 100 | 0 |
| CSPA_COMMONDATA | 20 | | | | |
| CSPA_DATA | 20 | | | | |
| CSPA_DIAGNOSTICCODE | 34 | | | | |
| CSPA_END | 100 | | | | |
| CSPA_HEADER | 0 | | | | |

IXLYCUNB Programming Interface information

Programming Interface information

IXLYCUNB

End of Programming Interface information

IXLYCUNB Heading Information

Common Name: Cache Unlock-castout Name Block
Macro ID: IXLYCUNB
DSECT Name: CUNB
Owning Component: Cross System Extended Services (SCIXL)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: User supplied
 Key: User supplied
 Residency: User supplied
Size: CUNB -- X'0020' bytes
Created by: IXLCACHE invoker
Pointed to by: BUFFER or BUFLIST parameter on IXLCACHE for UNLOCK_CASTOUT. It is included as a parameter called the CUNBAREA for UNLOCK_CO_NAME.
Serialization: See BUFFER, BUFLIST, and CUNBAREA parameter requirements on the IXLCACHE interface description.
Function: The CUNB maps the name blocks provided when the IXLCACHE macro is issued for an UNLOCK_CASTOUT request. It is also used to map a single name block passed as the CUNBAREA when the IXLCACHE macro is issued for an UNLOCK_CO_NAME request.

IXLYCUNB Map

| Offsets | | | | | |
|---------|------|------------|-----|---------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | CUNB | Cache Name Block |
| 0 | (0) | CHARACTER | 16 | CUNBNAME | Name of structure entry for which UNLOCK_CASTOUT or UNLOCK_CO_NAME processing is to be performed. |
| 16 | (10) | CHARACTER | 8 | CUNBUSERDATA | Value with which to update the directory entry user data. |
| 24 | (18) | BITSTRING | 1 | CUNBBYTEA (0) | Flag byte A |
| | | 1... | | CUNBCHANGE0I | "X'80" Change-bit OverIndication. 1 ==> the entry is to be left in the changed state and associated with the last specified cast-out class following UNLOCK_CASTOUT or UNLOCK_CO_NAME processing. This is not valid for cache entries with a castout state which indicates write with castout. 0 ==> UNLOCK_CASTOUT or UNLOCK_CO_NAME processing is not to alter the changed status, and should only disassociate the entry from a cast-out class if the current directory entry change bit indicates unchanged data. |
| | | ..11 | | CUNBPARITY | "X'30" Value with which to update the directory entry parity. |
| 25 | (19) | CHARACTER | 7 | | Reserved |
| 32 | (20) | CHARACTER | 1 | CUNBEND (0) | End of CUNB |
| 32 | (20) | X'20' | 0 | CUNB_LEN | "*-CUNB" |

IXLYDCAC Programming Interface information

Programming Interface information

IXLYDCAC

End of Programming Interface information

IXLYDCAC Heading Information

Common Name: Dumping Cache Structure Controls Mapping
Macro ID: IXLYDCAC
DSECT Name: DCAC
Owning Component: Cross System Extended Services (SCIXL)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: User Defined
Key: User Defined
Residency: User Defined
Size: DCACDUPLEXINGCONTROLS -- X'003C' bytes
DCACREMOTEFACILITY -- X'003C' bytes
DCAC -- X'0100' bytes
Created by: The IXLZSTR CF Structure Data Access Service in the user defined ANSAREA
Pointed to by: User
Serialization: None required
Function: Provides a map of the dumping Cache Structure controls.

IXLYDCAC Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | DCAC | Mapping for Cache Structure controls |
| 0 | (0) | CHARACTER | 20 | | Reserved |
| 20 | (14) | SIGNED | 4 | DCACTOTALDIRENTCT | Total Directory-entry count - specifies the number of directory entries allocated for the cache structure. This count is only substantially accurate. |
| 24 | (18) | SIGNED | 4 | DCACTOTALDTAREAELEMCT | Total data area element count - specifies the number of data area elements allocated for the cache structure. This count is only substantially accurate. |
| 28 | (1C) | CHARACTER | 1 | DCACFLAGBYTE1 (0) | Flag byte 1 |
| | | 1... | | DCACADJASGNIND | "X'80" Adjunct-assignment indicator - indicates if adjunct areas are present |
| | | .1.. | | DCACUDFORDERQUEUEIND | "X'40" UDF order queue indicator - indicates that a user data field order queue is being maintained (LEVEL5) |
| | | ..1. | | DCACDUPLEXINGSTATE | "X'20" Duplexing State - indicates that a structure is in a state of being duplexed (LEVEL11) |
| | |1. | | DCACREAPPINPROGRESS | "X'02" Reapportionment in progress indicator (LEVEL1) |
| | |1 | | DCACSIZECHNGINPROGRESS | "X'01" Structure size change in progress indicator (LEVEL1) |
| 29 | (1D) | SIGNED | 1 | DCACMAXSTGCLASS | Maximum storage class - specifies the number of storage classes. |
| 30 | (1E) | BITSTRING | 2 | DCACNAMECLASSMASK | Name class mask (LEVEL7) |
| 32 | (20) | SIGNED | 2 | DCACMAXCSTCLASS | Maximum castout class - specifies the number of castout values. |
| 34 | (22) | SIGNED | 1 | DCACDTAREAELEMCHAR | Data area element characteristic - specifies the number of bytes in each data area element |
| 35 | (23) | SIGNED | 1 | DCACMAXDTAREASIZE | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|----------------------------|---|
| Dec | Hex | | | | |
| | | | | | Maximum data area size - specifies the maximum allowable size of a data area as an integral multiple of the data area element size. The valid values are 1-255 |
| 36 | (24) | SIGNED | 4 | DCACSTRSIZE | Structure size - specifies the number of 4K units of facility storage allocated for the cache |
| 40 | (28) | SIGNED | 4 | DCACMAXSTRSIZE | Maximum structure size - specifies the maximum number of 4K units of facility storage that can be allocated for the cache |
| 44 | (2C) | SIGNED | 4 | DCACMINSTRSIZE | Minimum Structure Size - specifies the minimum number of 4K units of facility storage that can be allocated for the cache with the requested attributes. Note that the structure can be allocated smaller than this, but if so, structure attributes such as the entry/element ratio will differ significantly from those which were requested. |
| 48 | (30) | CHARACTER | 16 | DCACSTRAUTH | Structure Authority - A 16 byte value associated with each bit in the SID vector |
| 64 | (40) | CHARACTER | 32 | DCACUSRSTRCNTL | User Structure Control - a 32 byte field defined by the user |
| 96 | (60) | BITSTRING | 32 | DCACL CIDVECTOR | LCID Vector - A bit string with an initial value of zero. Set to one when a user is assigned a value of (i). The bit at position I is set to zero when a user is unassigned |
| 128 | (80) | SIGNED | 4 | DCACTGTSTRSIZE | Target Structure Size - specifies the target number of 4K units to be allocated for the cache |
| 132 | (84) | SIGNED | 4 | DCACTGTDIRENTCT | Target Directory Entry Count - specifies the target for the maximum number of possible directory entries in a cache structure |
| 136 | (88) | SIGNED | 4 | DCACTGTDTAREAELEMCT | Target Data-Area-Element Count - specifies the target for the maximum number of data area elements that are available for assignment to directory entries in a cache structure |
| 140 | (8C) | SIGNED | 4 | DCACPENDDIRTODATARATIO (0) | Pending directory to data ratio (LEVEL1) |
| 140 | (8C) | SIGNED | 2 | DCACPENDDIRTODATADIR | Pending directory to data ratio, directory portion (LEVEL1) |
| 142 | (8E) | SIGNED | 2 | DCACPENDDIRTODATADATA | Pending directory to data ratio, data portion (LEVEL1) |
| 144 | (90) | SIGNED | 4 | DCACMARGINALSTRSIZE | Marginal structure size - true minimum size with which the structure can be allocated (LEVEL1) |
| 148 | (94) | SIGNED | 4 | DCACTOTSTRCHANGEDENTCT | Total structure changed entry count. This count is only substantially accurate (LEVEL1) |
| 152 | (98) | SIGNED | 4 | DCACTOTSTRCHANGEDELEMCT | Total structure changed element count. This count is only substantially accurate (LEVEL1) |
| 156 | (9C) | CHARACTER | 2 | | Reserved |
| 158 | (9E) | SIGNED | 2 | DCACCASTOUTCLASSCURSOR | Castout Class Cursor (LEVEL8) |
| 160 | (A0) | CHARACTER | 32 | DCACEXTUSERSTRCONTROLS | Extended User Structure Controls (LEVEL8) |
| 192 | (C0) | SIGNED | 4 | DCACWWCOQUEUECOUNTER | Write With Castout queue counter (LEVEL8) |
| 196 | (C4) | SIGNED | 4 | DCACSTRCOPYCNTLVERSION | Structure copy controls version number (LEVEL8) |
| 200 | (C8) | SIGNED | 4 | DCACCOUNTUNCHWITHREGINT | Global count of unchanged directory entries with registered interest (LEVEL8) |
| 204 | (CC) | SIGNED | 4 | DCACFREEDIRENTRYCOUNT | Free directory entry count (LEVEL8) |

IXLYDCAC Cross Reference

| Offsets | | | | | |
|---------|------|------------|-----|-----------------------|---------------------------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 208 | (D0) | SIGNED | 4 | DCACFREEDATAAREACOUNT | Free data area element count (LEVEL8) |
| 212 | (D4) | CHARACTER | 44 | | Reserved |
| 212 | (D4) | X'100' | 0 | DCAC_LEN | **-DCAC" |

| Offsets | | | | | |
|---------|------|------------|-----|-----------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | DCACDUPLEXINGCONTROLS | Duplexing controls from the dump header |
| 0 | (0) | CHARACTER | 32 | DCACDUPCONNODEDESC | node descriptor |
| 32 | (20) | CHARACTER | 16 | DCACDUPCONSTRUCTAUTH | Structure authority |
| 48 | (30) | CHARACTER | 8 | DCACDUPCONSYSID | System id |
| 56 | (38) | CHARACTER | 2 | | reserved |
| 58 | (3A) | CHARACTER | 2 | DCACDUPCONSTRUCTUREID | Structure Id |

Comment

Length Constants

End of Comment

| | | | | | |
|----|------|--------|---|---------------------------|---------------------------|
| 58 | (3A) | X'100' | 0 | KDCAC_LEN | "256" Length of DCac |
| 58 | (3A) | X'3C' | 0 | DCACDUPLEXINGCONTROLS_LEN | **-DCACDUPLEXINGCONTROLS" |

IXLYDCAC Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|---------------------------|------------|-----------|------------------------|------------|-----------|
| DCAC | 0 | | DCACFREEDIRENTRYCOUNT | | |
| DCAC_LEN | D4 | 100 | | CC | |
| DCACADJASGNIND | | | DCACLCIDVECTOR | | |
| | 1C | 80 | | 60 | |
| DCACCASTOUTCLASSCURSOR | | | DCACMARGINALSTRSIZE | | |
| | 9E | | | 90 | |
| DCACCOUNTUNCHWITHREGINT | | | DCACMAXCSTCLASS | | |
| | C8 | | | 20 | |
| DCACDTAREAELEMCHAR | | | DCACMAXDTAREASIZE | | |
| | 22 | | | 23 | |
| DCACDUPCONNODEDESC | | | DCACMAXSTGCLASS | | |
| | 0 | | | 1D | |
| DCACDUPCONSTRUCTAUTH | | | DCACMAXSTRSIZE | | |
| | 20 | | | 28 | |
| DCACDUPCONSTRUCTUREID | | | DCACMINSTRSIZE | | |
| | 3A | | | 2C | |
| DCACDUPCONSYSID | | | DCACNAMECLASSMASK | | |
| | 30 | | | 1E | |
| DCACDUPLEXINGCONTROLS | | | DCACPENDDIRTODATADATA | | |
| | 0 | | | 8E | |
| DCACDUPLEXINGCONTROLS_LEN | | | DCACPENDDIRTODATADIR | | |
| | 3A | 3C | | 8C | |
| DCACDUPLEXINGSTATE | | | DCACPENDDIRTODATARATIO | | |
| | 1C | 20 | | 8C | |
| DCACEXTUSERSTRCONTROLS | | | DCACREAPPINPROGRESS | | |
| | A0 | | | 1C | 2 |
| DCACFLAGBYTE1 | | | DCACSIZECHNGINPROGRESS | | |
| | 1C | | | 1C | 1 |
| DCACFREEDATAAREACOUNT | | | DCACSTRAUTH | | |
| | D0 | | | 30 | |
| | | | DCACSTRCOPYCNTLVERSION | | |

| Name | Hex Offset | Hex Value |
|-------------------------|---------------|--------------|
| | C4 | |
| DCACSTRSIZE | 24 | |
| DCACTGTDIRENTCT | | |
| | 84 | |
| DCACTGTDTAREAELEMCT | | |
| | 88 | |
| DCACTGTSTRSIZE | | |
| | 80 | |
| DCACTOTALDIRENTCT | | |
| | 14 | |
| DCACTOTALDTAREAELEMCT | | |
| | 18 | |
| DCACTOTSTRCHANGEDELEMCT | | |
| | 98 | |
| DCACTOTSTRCHANGEDENTCT | | |
| | 94 | |
| DCACUDFORDERQUEUEIND | | |
| | 1C | 40 |
| DCACUSRSTRCNTL | | |
| | 40 | |
| DCACWWCOQUEUECOUNTER | | |
| | C0 | |
| KDCAC_LEN | 3A | 100 |

IXLYDCCC Programming Interface information

Programming Interface information

IXLYDCCC

End of Programming Interface information

IXLYDCCC Heading Information

Common Name: Dumping Castout Class Controls Mapping
Macro ID: IXLYDCCC
DSECT Name: Dccc
Owning Component: Cross System Extended Services (SCIXL)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: User Defined
 Key: User Defined
 Residency: User Defined
Size: DCCC -- X'0020' bytes
Created by: The IXLZSTR CF Structure Data Access Service in the user defined ANSAREA
Pointed to by: User
Serialization: None required
Function: Provides a map of the dumping castout class controls

IXLYDCCC Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|------------------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | DCCC | Mapping for castout class controls |
| 0 | (0) | SIGNED | 4 | DCCCCASTOUTCLASSCOUNT | Castout Class Count - specifies the number of data elements associated with entries that are in the indicated castout class |
| 4 | (4) | CHARACTER | 2 | | Reserved |
| 6 | (6) | BITSTRING | 1 | DCCCCASTOUTCLASSFLAGS (0) | Flag byte |
| | | 1... .. | | DCCCCASTOUTCLASSSCANSTATE | "X'80" Castout class scan state If DcccCastoutClassScanId is 0 then the scan is available. Otherwise, if the scan state is 0 then the scan is in progress. Otherwise the scan is complete. |
| 7 | (7) | BITSTRING | 1 | DCCCCASTOUTCLASSSCANID | Castout class scan Id. If it is 0 then the scan is available. |
| 8 | (8) | CHARACTER | 24 | | Reserved |
| 8 | (8) | X'20' | 0 | DCCC_LEN | "*-DCCC" |

IXLYDDIB Programming Interface information

Programming Interface information

IXLYDDIB

End of Programming Interface information

IXLYDDIB Heading Information

Common Name: Dumping Information Block mappings
Macro ID: IXLYDDIB
DSECT Name: DLte DDil DDic DLucb DLccb DEmc
Owning Component: Cross System Extended Services (SCIXL)
Eye-Catcher ID: None
Storage Attributes: Subpool: User Defined
 Key: User Defined
 Residency: User Defined
Size: DLTE -- X'0004' bytes
 DDIL -- X'0040' bytes
 DDIC -- X'0080' bytes
 DLUCB -- X'0080' bytes
 DLCCB -- X'0080' bytes
 DEMC -- X'0040' bytes
Created by: The IXLZSTR CF Structure Data Access Service in the user defined ANSAREA
Pointed to by: User
Serialization: None required
Function: Provides mappings for:
 Lock table entry (LTE). The LTE contains the Lock table entry information associated with a structure and is mapped by DLte.
 List-entry control block (LECB). The LECB contains the element controls associated with a list structure and is mapped by DDil.
 Directory information block (DIFB). The DIFB contains the element controls associated with a cache structure and is mapped by DDic.
 List-user control block (LUCB). The LUCB contains the list user controls and is mapped by DLucb
 Local-cache control block (LCCB). The LCCB contains the local cache controls and is mapped by DLccb
 Event Monitor control block (EMC). The EMC contains the event monitor controls associated with a list structure and is mapped by DEmc.

IXLYDDIB Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|-------------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | DLTE | Mapping for the Lock table entry |
| 0 | (0) | SIGNED | 4 | DLTEENTRYNUMBER | |
| | | | | | Lock table entry number - index into the lock table |
| 4 | (4) | CHARACTER | 1 | DLTEENTRYVALUE (0) | Lock table entry value - Contents of the lock index in the lock table. To obtain the length of this field, look in the StrBHeader mapping for the field called StrBTableEntryLen. Then subtract the length of the DLteEntryNumber from the This value can only be obtained after using the access service and mapping the output buffer with the StrBHeader mapping. |
| | | | | | |
| 4 | (4) | SIGNED | 1 | DLTECONNECTIONID (0) | connection ID |
| | | | | | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|----------------|--|
| Dec | Hex | | | | |
| | | 1... .. | | DLTESYSTEMHELD | "X'80" 0 => Lock is held by the connection ID found in this lock table entry 1 => Lock is held by the system |
| 4 | (4) | X'4' | 0 | DLTE_LEN | "*-DLTE" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | DDIL | Mapping for List-entry control block |
| 0 | (0) | SIGNED | 1 | DDILDTLSTENTSIZE | Data elements in entry - the number of data elements in an entry |
| 1 | (1) | CHARACTER | 7 | | Reserved |
| 8 | (8) | SIGNED | 4 | DDILLISTNUM | List Number - The number of the list to which the list entry belongs to |
| 12 | (C) | CHARACTER | 12 | DDILLEID | List-entry identifier - A value that identifies a list entry in an object list |
| 24 | (18) | CHARACTER | 8 | DDILVERSIONNUM | Version number - An eight byte value that is conditionally compared and conditionally updated. The version number is initialized to zero when a list entry is created |
| 32 | (20) | CHARACTER | 16 | DDILLSTENTKEY (0) | List-entry key - partially designates the position of the list entry on the list. This field is mutually exclusive with DDilLstEntName |
| 32 | (20) | CHARACTER | 16 | DDILLSTENTNAME | List-entry name - fully designates the position of the list entry in the list. It is unique to a list set at any particular instant. This field is mutually exclusive with DDilLstEntKey NOTE - To determine which field to use, check the last two bits in the list structure type (LST) field in the list structure controls (This is mapped by IXLYDLIC). X'10' says that the entry is keyed, not named. X'01' says that the entry is named, not keyed. X'00' indicates that the entry is neither keyed nor named |
| 48 | (30) | CHARACTER | 16 | | Reserved |
| 48 | (30) | X'40' | 0 | KDDIL_LEN | "64" Length of DDil |
| 48 | (30) | X'40' | 0 | DDIL_LEN | "*-DDIL" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | DDIC | Mapping for Directory information block |
| 0 | (0) | CHARACTER | 16 | DDICNAME | Name - The value specified by the program when the named data object is registered in cache |
| 16 | (10) | CHARACTER | 8 | DDICUSERDATA | User-data field - value that is associated with the data when it is initially changed in the facility cache and is maintained until the data table entry is reused. The user data field is valid when the data is cached |
| 24 | (18) | SIGNED | 1 | DDICSTGCLASS | Storage class - identifies the storage class assigned for the name |
| 25 | (19) | CHARACTER | 1 | DDICFLAGBYTE1 (0) | Flag Byte 1 |
| | | 1... .. | | DDICCHGIND | "X'80" Change indicator |
| | | .1.. .. | | DDICDTCACHEDIND | "X'40" Data-cached indicator |
| | | ..11 .. | | DDICPARITYIND | "X'30" Parity value |
| | | 11.. | | DDICSTLOCKSTATE | "X'0C" Castout lock state. Values are declared below. |
| 26 | (1A) | SIGNED | 2 | DDICSTCLASS | Castout class - The value identifies the castout class assigned for the name |

IXLYDDIB Map

| Offsets | | | | | |
|---------|------|------------|-----|----------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 28 | (1C) | SIGNED | 2 | DDICCSTLKVAL | Castout lock value - indicates the castout state of the data. Zero means the data is not being castout and if non-zero, the first byte identifies the local cache that is casting out the data block from facility cache to DASD |
| 30 | (1E) | CHARACTER | 1 | DDICDATAAREASIZE | Reserved |
| 31 | (1F) | SIGNED | 1 | | Data elements in entry - number of elements in an entry |
| 32 | (20) | CHARACTER | 32 | DDICLOCCACHEIND | Local-cache indicators |
| 64 | (40) | CHARACTER | 1 | DDICFLAGBYTE3 (0) | Flag Byte 3 |
| | | 1... | | DDICLCENVALIND | "X'80" LCEN validity indicator - A 1 in this field indicates that the local cache entry number is valid. A 0 in this field indicates that the local cache entry field is invalid |
| 65 | (41) | CHARACTER | 3 | DDICLCACHEENTNUM | Reserved |
| 68 | (44) | SIGNED | 4 | | Local-cache entry number - The value indicates the number of a local cache entry |
| 72 | (48) | CHARACTER | 8 | DDICCACHEVERSION | Cache entry version number. Valid only for structures allocated in a CFLEVEL=5 or higher coupling facility. |
| 80 | (50) | CHARACTER | 48 | KDDIC_LEN | Reserved |
| 80 | (50) | X'80' | 0 | | "128" Length of DDic |

Comment

Castout lock state values

Note: To use these values you should reset all of the bits in

DDICFLAGBYTE1 except the DDICCSTLOCKSTATE bits and then compare the full byte against these values.

End of Comment

....

DDICCOLS_RESET

"B'00000000" The reset state is entered when the name is assigned to the directory entry or when the castout lock is reset to zeros.

.... .1..

DDICCOLS_READFORCASTOUT

"B'00000100" The read for castout state is entered when the castout lock is obtained by a CASTOUT_DATA request.

.... 1...

DDICCOLS_WRITEWITHCASTOUT

"B'00001000" The write with castout state is entered when the castout lock is obtained by a WRITE_DATA request specifying GETCOLOCK=YES.

80 (50)

X'80'

0

DDIC_LEN

"*-DDIC"

Offsets

| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
|-----|-----|------------|-----|-----------------------|---|
| 0 | (0) | STRUCTURE | 0 | DLUCB | Mapping for List-user control block |
| 0 | (0) | CHARACTER | 1 | DLUCBUSERID | Reserved |
| 1 | (1) | CHARACTER | 1 | | User identifier - The value identifies the user |
| 2 | (2) | CHARACTER | 5 | DLUCBFLAGBYTE1 (0) | Reserved |
| 7 | (7) | CHARACTER | 1 | | Flag Byte 1 |
| | | 1... | | DLUCBUSERSTATE | "X'80" User state - state of the user. One indicates attached and zero indicates detached |
| 8 | (8) | CHARACTER | 8 | DLUCBLSTNOTIFYTOKEN | List-notification token - specifies a list notification vector to the system |

| Offsets | | | | | |
|---------|------|------------|-----|----------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 16 | (10) | CHARACTER | 16 | DLUCBUSERAUTH | User authority |
| 32 | (20) | CHARACTER | 8 | | Reserved |
| 40 | (28) | CHARACTER | 8 | DLUCBSYSID | System identifier - The value is specified by the program when a message path is activated |
| 48 | (30) | CHARACTER | 64 | DLUCBATTCHCNTL | User Attachment Control - a 64 byte field per attached user |
| 112 | (70) | CHARACTER | 16 | | Reserved |
| 112 | (70) | X'80' | 0 | KDLUCB_LEN | "128" Length of DLucb |
| 112 | (70) | X'80' | 0 | DLUCB_LEN | "*-DLUCB" |

| Offsets | | | | | |
|---------|------|------------|-----|-----------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | DLCCB | Mapping for Local-cache control block |
| 0 | (0) | CHARACTER | 1 | | Reserved |
| 1 | (1) | CHARACTER | 1 | DLCCBLOCCACHEID | Local-cache identifier - Value that identifies a local cache |
| 2 | (2) | CHARACTER | 5 | | Reserved |
| 7 | (7) | CHARACTER | 1 | DLCCBFLAGBYTE1 (0) | Flag Byte 1 |
| | | 11.. | | DLCCBATTSTATUS | "X'C0" Attachment status - describes the state of the attachment to the local cache. See constant definitions starting with kDLccbAS. |
| 8 | (8) | CHARACTER | 8 | DLCCBLOCCACHETOKEN | Local-cache token - The value is used to identify the local cache on the central processing complexes |
| 16 | (10) | CHARACTER | 16 | DLCCBLCLCACHEAUTH | Local Cache Authority |
| 32 | (20) | CHARACTER | 8 | | Reserved |
| 40 | (28) | CHARACTER | 8 | DLCCBSYSID | System identifier - Value specified by the program when a message path is activated |
| 48 | (30) | CHARACTER | 64 | DLCCBATTACHINFO | Attachment Information - A 64 byte value set by the program when the local cache is attached |
| 112 | (70) | CHARACTER | 16 | | Reserved |
| 112 | (70) | X'80' | 0 | KDLCCB_LEN | "128" Length of DLccb |

Comment

Attachment status values

Note: To use these values you should copy the contents of DLccbFlagByte1 to separate storage, mask off all bits except the DLccbAttStatus bits and then compare the masked byte against these values.

End of Comment

| | | | | | |
|-----|------|-----------|---|------------------------|---------------------------------------|
|  |  | .... .... |  | KDLCCBAS_DETACHED | "B'00000000" Connector detached |
| | | 1... | | KDLCCBAS_ATTACHED | "B'10000000" Connector attached |
| | | 11.. | | KDLCCBAS_DETACHPENDING | "B'11000000" Connector detach pending |
| 112 | (70) | X'80' | 0 | DLCCB_LEN | "*-DLCCB" |

| Offsets | | | | | |
|---------|-----|------------|-----|------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | DEMC | Mapping for Event Monitor control block |
| 0 | (0) | CHARACTER | 1 | | reserved |
| 1 | (1) | SIGNED | 1 | DEMCCONID | Connection identifier of the connector associated with the EMC. |

IXLYDDIB Cross Reference

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-----------------------|---|
| Dec | Hex | | | | |
| 2 | (2) | CHARACTER | 5 | | reserved |
| 7 | (7) | BITSTRING | 1 | DEMCFLAGS (0) | flags |
| | |1.. | | DEMCNOTIFYONEVERY | "X'04'" ON ==> indicates that an EMC will be queued to the associated event queue whenever a list entry is added to the sublist. OFF ==> indicates that an EMC will be queued to the associated event queue whenever the first list entry is added to the sublist (CFLEVEL 9) |
| | |1. | | DEMCKEYTYPE | "X'02'" ON ==> if EMC is associated with a sublist of secondarykeys, indicates DEMCSecondaryKey is valid. OFF ==> if EMC is associated with a sublist of entrykeys, also indicates DEMCListEntKey is valid (CFLEVEL 9) |
| | |1 | | DEMCEMCQUEUED | "X'01'" 1 indicates EMC is queued to the event queue of connector identified by ConID |
| 8 | (8) | SIGNED | 4 | DEMCLISTNUM | List number of the list with which EMC is associated. Partially designates the subsidiary list |
| 12 | (C) | CHARACTER | 4 | | reserved |
| 16 | (10) | CHARACTER | 32 | DEMCLISTENTRYKEYS (0) | EntryKey or Secondary key indicated by DemcKeyType |
| 16 | (10) | CHARACTER | 32 | DEMCENTKEYBUF (0) | KeyType = B'0' |
| 16 | (10) | CHARACTER | 16 | | Reserved |
| 32 | (20) | CHARACTER | 16 | DEMCLISTENTKEY | List entry key of sublist with which EMC is associated. Partially designates the subsidiary list |
| 16 | (10) | CHARACTER | 32 | DEMCSECONDARYKEY | KeyType = B'1', SecondaryKey of the sublist with which the EMC is associated. (CFLEVEL 9) |
| 48 | (30) | CHARACTER | 16 | DEMCUNC | User notification control data supplied by connector when this EMC was established to monitor the indicated sublist via IXLLIST REQUEST=MONITOR_SUBLIST, ACTION=START,UNC=xunc |
| 48 | (30) | X'40' | 0 | KDEMC_LEN | "64" Length of DEMc |
| 48 | (30) | X'40' | 0 | DEMC_LEN | "*-DEMC" |

IXLYDDIB Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|---------------------------|------------|-----------|------------------|------------|-----------|
| DDIC | 0 | | | 40 | |
| DDIC_LEN | 50 | 80 | DDICLCACHEENTNUM | 44 | |
| DDICCACHEVERSION | 48 | | DDICLCENVALIND | 40 | 80 |
| DDICCHGIND | 19 | 80 | DDICLOCCACHEIND | 20 | |
| DDICCOLS_READFORCASTOUT | 50 | 4 | DDICNAME | 0 | |
| DDICCOLS_RESET | 50 | 0 | DDICPARITYIND | 19 | 30 |
| DDICCOLS_WRITEWITHCASTOUT | 50 | 8 | DDICSTGCLASS | 18 | |
| DDICCSTCLASS | 1A | | DDICUSERDATA | 10 | |
| DDICCSTLKVAL | 1C | | DDIL | 0 | |
| DDICCSTLOCKSTATE | 19 | C | DDIL_LEN | 30 | 40 |
| DDICDATAAREASIZE | 1F | | DDILDTLSTENTSIZE | 0 | |
| DDICDTCACHEDIND | 19 | 40 | DDILLEID | C | |
| DDICFLAGBYTE1 | 19 | | DDILLISTNUM | 8 | |
| DDICFLAGBYTE3 | | | DDILLSTENTKEY | 20 | |
| | | | DDILLSTENTNAME | 20 | |

| Name | Hex Offset | Hex Value |
|---------------------|---------------|--------------|
| DDILVERSIONNUM | 18 | |
| DEMC | 0 | |
| DEMC_LEN | 30 | 40 |
| DEMCCONID | 1 | |
| DEMCEMCQUEUED | 7 | 1 |
| DEMCENTKEYBUF | 10 | |
| DEMCFLAGS | 7 | |
| DEMCKEYTYPE | 7 | 2 |
| DEMCLISTENTKEY | 20 | |
| DEMCLISTENTRYKEYS | 10 | |
| DEMCLISTNUM | 8 | |
| DEMCNOTIFYONEVERY | 7 | 4 |
| DEMCSECONDARYKEY | 10 | |
| DEMCUNC | 30 | |
| DLCCB | 0 | |
| DLCCB_LEN | 70 | 80 |
| DLCCBATTACHINFO | 30 | |
| DLCCBATTSTATUS | 7 | C0 |
| DLCCBFLAGBYTE1 | 7 | |
| DLCCBLCLCACHEAUTH | 10 | |
| DLCCBLOCCACHEID | 1 | |
| DLCCBLOCCACHETOKEN | 8 | |
| DLCCBSYSID | 28 | |
| DLTE | 0 | |
| DLTE_LEN | 4 | 4 |
| DLTECONNECTIONID | 4 | |
| DLTEENTRYNUMBER | 0 | |
| DLTEENTRYVALUE | 4 | |
| DLTESYSTEMHELD | 4 | 80 |
| DLUCB | 0 | |
| DLUCB_LEN | 70 | 80 |
| DLUCBATTCHCNTL | 30 | |
| DLUCBFLAGBYTE1 | 7 | |
| DLUCBLSTNOTIFYTOKEN | 8 | |
| DLUCBSYSID | 28 | |
| DLUCBUSERAUTH | 10 | |
| DLUCBUSERID | 1 | |
| DLUCBUSERSTATE | 7 | 80 |
| KDDIC_LEN | 50 | 80 |
| KDDIL_LEN | 30 | 40 |
| KDEMC_LEN | 30 | 40 |
| KDLCCB_LEN | 70 | 80 |
| KDLCCBAS_ATTACHED | | |

| Name | Hex Offset | Hex Value |
|------------------------|---------------|--------------|
| | 70 | 80 |
| KDLCCBAS_DETACHED | 70 | 0 |
| KDLCCBAS_DETACHPENDING | 70 | C0 |
| KDLUCB_LEN | 70 | 80 |

IXLYDEIB Programming Interface information

Programming Interface information

IXLYDEIB

End of Programming Interface information

IXLYDEIB Heading Information

Common Name: Directory Entry Information Block - DEIB
Macro ID: IXLYDEIB
DSECT Name: DEIB
Owning Component: Cross System Extended Services (SCIXL)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: User supplied
Key: User supplied
Residency: User supplied
Size: DEIB -- X'0080' bytes
Created by: - Storage area created by IXLCACHE invoker
- DEIB data created by IXLCACHE service routine
Pointed to by: BUFFER or BUFLIST paramter on IXLCACHE
Serialization: See BUFFER and BUFLIST parameter requirements on the IXLCACHE interface description.
Function: The DEIB maps the information returned for a single cache structure directory entry returned on some IXLCACHE macro requests.

IXLYDEIB Map

| Offsets | | | | | |
|---------|------|------------|-----|-----------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | DEIB | Directory Entry Information Block |
| 0 | (0) | CHARACTER | 16 | DEIBNAME | Name of the structure entry for which this Deib contains directory information. |
| 16 | (10) | CHARACTER | 8 | DEIBUSERDATA | Directory entry user data field. |
| 24 | (18) | SIGNED | 1 | DEIBSTGCLASS | Storage class associated with the entry. |
| 25 | (19) | BITSTRING | 1 | DEIBBYTEA (0) | Bit level directory entry fields. |
| | | 1... | | DEIBCHANGED | "X'80" Entry changed bit. 1 ==> any cached subsystem data is changed. 0 ==> any cached subsystem data is unchanged. |
| | | .1.. | | DEIBCACHED | "X'40" Data-cached indicator. 1 ==> subsystem data is cached for the entry. 0 ==> no subsystem data is cached, e.g. only a directory entry is allocated for the name. |
| | | ..11 | | DEIBPARITY | "X'30" Parity associated with the entry. |
| | | 11.. | | DEIBCOLOCKSTATE | "X'0C" Castout lock state. Values are declared below. |
| 26 | (1A) | SIGNED | 2 | DEIBCOCLASS | Castout class associated with the entry. |
| 28 | (1C) | CHARACTER | 2 | DEIBCOLOCKVAL | Contents of the castout lock for the entry. (First byte is the connection ID, second byte is the process ID.) |
| 30 | (1E) | CHARACTER | 1 | | Reserved |
| 31 | (1F) | SIGNED | 1 | DEIBELEMNUM | Cache entry size expressed as the number of elements in the entry |
| 32 | (20) | CHARACTER | 32 | DEIBLCINTEREST | Bit string identifying which connected users have registered interest in the entry. The relative position of a bit in the string associates it with a connection ID. 1 ==> the associated connection has registered interest in the entry. 0 ==> the connection does not have registered interest in the entry. Bit 0 in this string will always be zero. |
| 64 | (40) | CHARACTER | 8 | | Reserved |
| 72 | (48) | CHARACTER | 8 | DEIBVERSION | Cache entry version number. Valid only for structures allocated in a CFLEVEL=5 or higher coupling facility. |
| 80 | (50) | CHARACTER | 48 | | Reserved |
| 128 | (80) | CHARACTER | 1 | DEIBEND (0) | End of Deib |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|--|------|------------|-----|---------------------------|--|
| Dec | Hex | | | | |
| Comment | | | | | |
| Castout lock state values | | | | | |
| Note: To use these values you should reset all of the bits in DEIBBYTEA except the DEIBCOLOCKSTATE bits and then compare the full byte against these values. | | | | | |
| End of Comment | | | | | |
|  |  | .... .... |  | DEIBCOLS_RESET | "B'00000000" The reset state is entered when the name is assigned to the directory entry or when the castout lock is reset to zeros. |
| | |1.. | | DEIBCOLS_READFORCASTOUT | "B'00000100" The read for castout state is entered when the castout lock is obtained by a CASTOUT_DATA request. |
| | | 1... | | DEIBCOLS_WRITEWITHCASTOUT | "B'00001000" The write with castout state is entered when the castout lock is obtained by a WRITE_DATA request specifying GETCOLOCK=YES. |
| 128 | (80) | X'80' | 0 | DEIB_LEN | "*-DEIB" |

IXLYDEIB Cross Reference

| Name | Hex Offset | Hex Value |
|---------------------------|------------|-----------|
| DEIB | 0 | |
| DEIB_LEN | 80 | 80 |
| DEIBBYTEA | 19 | |
| DEIBCACHED | 19 | 40 |
| DEIBCHANGED | 19 | 80 |
| DEIBCOCLASS | 1A | |
| DEIBCOLOCKSTATE | 19 | C |
| DEIBCOLOCKVAL | 1C | |
| DEIBCOLS_READFORCASTOUT | 80 | 4 |
| DEIBCOLS_RESET | 80 | 0 |
| DEIBCOLS_WRITEWITHCASTOUT | 80 | 8 |
| DEIBELEMNUM | 1F | |
| DEIBEND | 80 | |
| DEIBLCINTEREST | 20 | |
| DEIBNAME | 0 | |
| DEIBPARITY | 19 | 30 |
| DEIBSTGCLASS | 18 | |
| DEIBUSERDATA | 10 | |
| DEIBVERSION | 48 | |

IXLYDELI Programming Interface information

Programming Interface information

IXLYDELI

End of Programming Interface information

IXLYDELI Heading Information

| | |
|----------------------------|--|
| Common Name: | Delete EntryList Input |
| Macro ID: | IXLYDELI |
| DSECT Name: | DELI |
| Owning Component: | Cross System Extended Services (SCIXL) |
| Eye-Catcher ID: | NONE |
| Storage Attributes: | Subpool: User specified Key: User specified Residency: User specified |
| Size: | DELI1 -- X'0010' bytes DELI2 -- X'000C' bytes DELI3 -- X'0040' bytes |
| Created by: | Storage area created by IXLLIST or IXLLSTM invoker. |
| Pointed to by: | BUFFER or BUFLIST |
| Serialization: | See BUFFER/BUFLIST parameter requirements on the IXLLIST/IXLLSTM interface description. |
| Function: | <p>Maps the information needed to identify an individual list entry to be deleted via the IXLLIST REQUEST=DELETE_ENTRYLIST or IXLLSTM REQUEST=DELETE_ENTRYLIST service.</p> <p>The storage area(s) indicated by BUFFER or BUFLIST on an IXLLSTM REQUEST=DELETE_ENTRYLIST contain an input array of elements. Each element may be mapped by DELI1, DELI2, or DELI3, and contains the information needed for deleting entries from a list.</p> <p>The storage area(s) indicated by BUFFER or BUFLIST on an IXLLIST REQUEST=DELETE_ENTRYLIST contain an input array of elements. Each element is mapped by DELI1 or DELI2, and contains the information needed for deleting entries from a list.</p> <p>The format (and size) of each element is determined by the structure characteristics, and the options specified on the IXLLSTM/IXLLIST REQUEST=DELETE_ENTRYLIST.</p> <p>Each element in the array is mapped DELI1 when:</p> <ol style="list-style-type: none"> 1. IXLLSTM REQUEST=DELETE_ENTRYLIST is specified with LISTTYPE=NAMELIST and VERSIONCOMPARE=YES or VERSIONCOMPARE=NO 2. IXLLIST REQUEST=DELETE_ENTRYLIST is specified with LISTTYPE=NAMELIST. <p>Each element in the array is mapped DELI2 when:</p> <ol style="list-style-type: none"> 1. IXLLSTM REQUEST=DELETE_ENTRYLIST is specified with LISTTYPE=IDLIST and VERSIONCOMPARE=YES or VERSIONCOMPARE=NO 2. IXLLIST REQUEST=DELETE_ENTRYLIST is specified with LISTTYPE=IDLIST. <p>Each element in the array is mapped DELI3 when:</p> <ol style="list-style-type: none"> 1. IXLLSTM REQUEST=DELETE_ENTRYLIST is specified with VERSIONCOMPARE=BYENTRY. |

IXLYDELI Map

| Offsets | | | | | |
|---------|------|------------|-----|----------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | DELI1 | Delete EntryList Input |
| 0 | (0) | CHARACTER | 16 | DELI1_LIST_ENTRYNAME | List Entry Name of entry to be deleted when LISTTYPE=NAMELIST is specified. |
| 16 | (10) | CHARACTER | 1 | DELI1_END (0) | End of DELI type 1 |
| 16 | (10) | X'10' | 0 | DELI1_LEN | ** -DELI1" |

| Offsets | | | | | |
|---------|-----|------------|-----|--------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | DELI2 | Delete EntryList Input |
| 0 | (0) | CHARACTER | 12 | DELI2_LIST_ENTRYID | List Entry Id of entry to be deleted when LISTTYPE=IDLIST is specified. |
| 12 | (C) | CHARACTER | 1 | DELI2_END (0) | End of DELI type 2 |
| 12 | (C) | X'C' | 0 | DELI2_LEN | ** -DELI2" |

| Offsets | | | | | |
|---------|------|------------------------|-----|--------------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | DELI3 | Delete EntryList Input |
| 0 | (0) | CHARACTER | 16 | DELI3_LIST_ENTRYNAME (0) | List Entry Name which identifies the entry to be deleted when LISTTYPE=NAMELIST is specified. |
| 0 | (0) | CHARACTER | 12 | DELI3_LIST_ENTRYID | List Entry Id which identifies the entry to be deleted when LISTTYPE=IDLIST is specified. |
| 16 | (10) | CHARACTER | 4 | DELI3_FLAGS (0) | Reserved |
| 20 | (14) | BITSTRING 11.. | 1 | | Flags |
| | | | | DELI3_VERSCOMPTYPE | "X'0C" Version comparison type. Designates how the list entry version number is to be compared when VERSIONCOMPARE=BYENTRY is specified on IXLLSTM. 00 - No comparison 01 - The version number in the list entry must be equal to the version number in Deli3_VersComp. 11 - The version number in the list entry must be less than or equal to the version number specified in Deli3_VersComp. |
| 21 | (15) | CHARACTER | 11 | DELI3_VERSCOMP | Reserved |
| 32 | (20) | CHARACTER | 8 | | Comparative version number specifies the value to be compared to the version number of the designated entry when Deli3_VersCompType is not "none". |
| 40 | (28) | CHARACTER | 24 | DELI3_END (0) | Reserved |
| 64 | (40) | CHARACTER | 1 | | End of DELI type 3 |

Comment

Deli3_VersCompType and Deli3_VersComp only apply to the list entry designated by Deli3_List_EntryName or Deli3_List_EntryId in each array element.

End of Comment

| | | | | | |
|----|------|-----------|---|-------------------------------|--------------|
|  |  | .... .... |  | DELI_VERSCOMPTYPE_NONE | "B'00000000" |
| | |1.. | | DELI_VERSCOMPTYPE_EQUAL | "B'00000100" |
| | | 11.. | | DELI_VERSCOMPTYPE_LESSOREQUAL | "B'00001100" |
| 64 | (40) | X'40' | 0 | DELI3_LEN | ** -DELI3" |

IXLYDELI Cross Reference

IXLYDELI Cross Reference

| Name | Hex Offset | Hex Value |
|-------------------------------|---------------|--------------|
| DELI_VERSCOMPTYPE_EQUAL | 40 | 4 |
| DELI_VERSCOMPTYPE_LESSOREQUAL | 40 | C |
| DELI_VERSCOMPTYPE_NONE | 40 | 0 |
| DELI1 | 0 | |
| DELI1_END | 10 | |
| DELI1_LEN | 10 | 10 |
| DELI1_LIST_ENTRYNAME | 0 | |
| DELI2 | 0 | |
| DELI2_END | C | |
| DELI2_LEN | C | C |
| DELI2_LIST_ENTRYID | 0 | |
| DELI3 | 0 | |
| DELI3_END | 40 | |
| DELI3_FLAGS | 14 | |
| DELI3_LEN | 40 | 40 |
| DELI3_LIST_ENTRYID | 0 | |
| DELI3_LIST_ENTRYNAME | 0 | |
| DELI3_VERSCOMP | 20 | |
| DELI3_VERSCOMPTYPE | 14 | C |

IXLYDEQC Programming Interface information

Programming Interface information

IXLYDEQC

End of Programming Interface information

IXLYDEQC Heading Information

Common Name: Dumping Event Queue Controls Mapping
Macro ID: IXLYDEQC
DSECT Name: DEQC
Owning Component: Cross System Extended Services (SCIXL)
Eye-Catcher ID: None
Storage Attributes: Subpool: User Defined
 Key: User Defined
 Residency: User Defined
Size: DEQC -- X'0020' bytes
Created by: IXLZSTR CF Structure Data Access Service in the
 user defined ANSAREA
Pointed to by: User
Serialization: None required
Function: Provides a map of the dumping Event Queue controls

IXLYDEQC Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|------------------|------|------------|-----|----------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | DEQC | Mapping for the event queue controls |
| 0 | (0) | CHARACTER | 1 | | reserved |
| 1 | (1) | SIGNED | 1 | DEQCCONID | Connection ID |
| 2 | (2) | CHARACTER | 5 | | reserved |
| 7 | (7) | BITSTRING | 1 | DEQCFLAGS (0) | Flags |
| | | 1... | | DEQCEVENTQDRIVEEXIT | "X'80" Event notification request type. 1 indicates that the connection list transition exit will be driven when an empty to not empty state transition occurs. The user specified IXLLIST REQUEST=MONITOR_EVENTQ, ACTION=START, DRIVEEXIT=YES. |
| | | .1.. | | DEQCEVENTQMONITORINGACTIVE | "X'40" Event queue monitoring active. 1 indicates that the user associated with the event queue is monitoring the event queue |
| | | ..1. | | DEQC_EVENTQUEUEUETYPE | "X'20" 1 = Event queue has EMCs for sublists of Secondary keys, 0 = Event queue has EMCs for sublists of Entry keys (LEVEL 9) |
| 8 | (8) | SIGNED | 4 | DEQCEVENTQVECTORINDEX | Event notification vector index number specifies a list notification vector entry associated with this event queue |
| 12 | (C) | SIGNED | 4 | DEQCEVENTQCNT | Event monitor controls queued count - specifies the number of event monitor controls queued to the event queue |
| 16 | (10) | SIGNED | 4 | DEQCEVENTQTRANSCOUNT | Event queue state transition count - specifies the approximate number of empty to not empty event queue transitions that have occurred since the connector became active |
| 20 | (14) | CHARACTER | 12 | | reserved |
| Comment | | | | | |
| Length Constants | | | | | |
| End of Comment | | | | | |
| 20 | (14) | X'20' | 0 | KDEQC_LEN | "32" Length of DEQC |
| 20 | (14) | X'20' | 0 | DEQC_LEN | "*-DEQC" |

IXLYDEQC Cross Reference

| Name | Hex Offset | Hex Value |
|----------------------------|-----------------------|----------------------|
| DEQC | 0 | |
| DEQC_EVENTQUEUEUETYPE | 7 | 20 |
| DEQC_LEN | 14 | 20 |
| DEQCCONID | 1 | |
| DEQCEVENTQCNT | C | |
| DEQCEVENTQDRIVEEXIT | 7 | 80 |
| DEQCEVENTQMONITORINGACTIVE | 7 | 40 |
| DEQCEVENTQTRANSCOUNT | 10 | |
| DEQCEVENTQVECTORINDEX | 8 | |
| DEQCFLAGS | 7 | |
| KDEQC_LEN | 14 | 20 |

IXLYDLC Programming Interface information

Programming Interface information

IXLYDLC

End of Programming Interface information

IXLYDLC Heading Information

Common Name: Dumping List Controls Mapping
Macro ID: IXLYDLC
DSECT Name: Dlc DlcListMonTblEntry
Owning Component: Cross System Extended Services (SCIXL)
Eye-Catcher ID: None
Storage Attributes: Subpool: User Defined
 Key: User Defined
 Residency: User Defined
Size: DLC -- X'0108' bytes
 DLCLISTMONTBLENTY -- X'0008' bytes
 DLCKRGEMONTBLENTY -- X'0008' bytes
Created by: The IXLZSTR CF Structure Data Access Service in the user defined ANSAREA
Pointed to by: User
Serialization: None required
Function: Provides a map of the dumping list header controls and the list monitor table entries found in the list controls.

IXLYDLC Map

| Offsets | | | | | |
|---------|------|------------|-----|----------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | DLC | Mapping for list header controls |
| 0 | (0) | CHARACTER | 256 | DLCCNTLINFO (0) | Fixed area in the list number controls |
| 0 | (0) | CHARACTER | 18 | | Reserved |
| 18 | (12) | BITSTRING | 1 | DLCLISTFLAGS | Flag byte |
| | | 1... .. | | (0) DLCLISTSETSCANSTATE | "X'80" List set scan state If DlcListSetScanId is 0 then the scan is available. Otherwise, if the scan state is 0 then the scan is in progress. Otherwise the scan is complete. (LEVEL8) |
| 19 | (13) | BITSTRING | 1 | DLCLISTSETSCANID | List set scan Id. If it is 0 then the scan is available. (LEVEL8) |
| 20 | (14) | CHARACTER | 3 | | Reserved |
| 23 | (17) | BITSTRING | 1 | DLCLISTFLAGS (0) | Flags |
| | | 1... .. | | DLCCURSORDIRECTION | "X'80" Cursor direction, 0=head to tail, 1=tail to head (LEVEL1) |
| 24 | (18) | SIGNED | 4 | DLCLISTENTRYCOUNTLIMIT | List entry count limit - specifies the maximum number of possible list entries in a list |
| 28 | (1C) | SIGNED | 4 | DLCLISTENTRYCOUNT | List entry count - number of list entries currently in a list |
| 32 | (20) | SIGNED | 4 | DLCLSTSTETTRANSCT | List state transition count - specifies the number of empty to not empty list state transitions that have occurred |
| 36 | (24) | CHARACTER | 12 | DLCLISTCURSOR | List Cursor |
| 48 | (30) | CHARACTER | 16 | DLCLISTAUTH | List Authority |
| 64 | (40) | CHARACTER | 32 | DLCLISTDESC | List Description - The user specified description of the list |
| 96 | (60) | CHARACTER | 16 | DLCLISTKEY | List key for key assignment (LEVEL1) |
| 112 | (70) | CHARACTER | 16 | DLCLISTKEY | Maximum list key for key assignment (LEVEL1) |
| 128 | (80) | CHARACTER | 16 | DLCKEYRANGESTART | Lower or starting value of key range (LEVEL9) |
| 144 | (90) | CHARACTER | 16 | DLCKEYRANGEEND | Upper or ending value of key range (LEVEL9) |
| 160 | (A0) | SIGNED | 4 | DLCKEYRANGEEMPTYCOUNT | Count of number of entries that must remain in the keyrange to suppress a notempty to empty list notification (LEVEL9) |

| Offsets | | | | | |
|---------|-------|------------|-----|--------------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 164 | (A4) | SIGNED | 4 | DLCKEYRANGENOTEMPTYCOUNT | Count of number of entries that must be included in the key range before an empty to notempty list notification is generated (LEVEL9) |
| 168 | (A8) | SIGNED | 4 | DLCLISTEMPTYCOUNT | Count of number of entries that must remain in the list to suppress a notempty to empty list notification (LEVEL9) |
| 172 | (AC) | SIGNED | 4 | DLCLISTNOTEMPTYCOUNT | Count of enties value entries that must be included in the list before an empty to notempty list notification is generated (LEVEL9) |
| 176 | (B0) | CHARACTER | 80 | DLCLISTMONTBENTRYARR | Reserved |
| 256 | (100) | CHARACTER | 8 | | Array of list monitor table entries (LEVEL < 9) or an array of list monitor table entries followed by an array of keyrange monitor table entries (LEVEL >= 9) |
| 256 | (100) | X'108' | 0 | DLC_LEN | **-DLC" |

| Offsets | | | | | |
|---------|-----|------------|-----|------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | DLCLISTMONTBENTRY | List monitor table entry - contains info used to process the list notification vector of each user who has registered interest in the state transition of the list |
| 0 | (0) | CHARACTER | 1 | DLCLISTMONFLAGS (0) | Flag byte |
| | | 1... .. | | DLCLISTMONACTIVE | "X'80" List monitoring active bit - zero indicates that list monitoring was not active. One indicates that list monitoring was active |
| | | .1... .. | | DLCLISTNOTIFYREQTYPE | "X'40" List notification request type |
| 1 | (1) | CHARACTER | 3 | | Reserved |
| 4 | (4) | SIGNED | 4 | DLCLISTNOTIFYENTRYNUM | List notification entry number - The number of list notification entry number |
| 4 | (4) | X'8' | 0 | DLCLISTMONTBENTRY_LEN | **-DLCLISTMONTBENTRY" |

| Offsets | | | | | |
|---------|-----|------------|-----|------------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | DLCKRGEMONTBENTRY | Key range monitor table entry - contains info used to process the list notification vector of each user who has registered interest in the state transition of the keyrange |
| 0 | (0) | CHARACTER | 1 | DLCKRGEMONFLAGS (0) | Flag byte |
| | | 1... .. | | DLCKRGEMONACTIVE | "X'80" KeyRange monitoring active bit - zero indicates keyrange monitoring was not active. One indicates that keyrange monitoring was active |
| | | .1... .. | | DLCKRGENOTIFYREQTYPE | "X'40" KeyRange notification request type |
| 1 | (1) | CHARACTER | 3 | | Reserved |
| 4 | (4) | SIGNED | 4 | DLCKRGENOTIFYENTRYNUM | KeyRange notification entry number - The number of keyrange notification vector entry |
| 4 | (4) | X'8' | 0 | DLCKRGEMONTBENTRY_LEN | **-DLCKRGEMONTBENTRY" |

IXLYDLC Cross Reference

IXLYDLC Cross Reference

| Name | Hex Offset | Hex Value |
|--------------------------|---------------|--------------|
| DLC | 0 | |
| DLC_LEN | 100 | 108 |
| DLCCNTLINFO | 0 | |
| DLCCURSORDIRECTION | 17 | 80 |
| DLCFLAGS | 17 | |
| DLCKEYRANGEEMPTYCOUNT | A0 | |
| DLCKEYRANGEEND | 90 | |
| DLCKEYRANGENOTEMPTYCOUNT | A4 | |
| DLCKEYRANGESTART | 80 | |
| DLCKRGEMONACTIVE | 0 | 80 |
| DLCKRGEMONFLAGS | 0 | |
| DLCKRGEMONTBENTRY | 0 | |
| DLCKRGEMONTBENTRY_LEN | 4 | 8 |
| DLCKRGENOTIFYENTRYNUM | 4 | |
| DLCKRGENOTIFYREQTYPE | 0 | 40 |
| DLCLISTAUTH | 30 | |
| DLCLISTCURSOR | 24 | |
| DLCLISTDESC | 40 | |
| DLCLISTEMPTYCOUNT | A8 | |
| DLCLISTENTRYCOUNT | 1C | |
| DLCLISTENTRYCOUNTLIMIT | 18 | |
| DLCLISTFLAGS | 12 | |
| DLCLISTKEY | 60 | |
| DLCLISTMONACTIVE | 0 | 80 |
| DLCLISTMONFLAGS | 0 | |
| DLCLISTMONTBENTRY | 0 | |
| DLCLISTMONTBENTRY_LEN | 4 | 8 |
| DLCLISTMONTBENTRYARR | 100 | |
| DLCLISTNOTEMPTYCOUNT | AC | |
| DLCLISTNOTIFYENTRYNUM | 4 | |
| DLCLISTNOTIFYREQTYPE | 0 | 40 |
| DLCLISTSETSCANID | 13 | |
| DLCLISTSETSCANSTATE | 12 | 80 |
| DLCLSTSTETTRANSCT | 20 | |
| DLCMAXLISTKEY | 70 | |

IXLYDLCC Programming Interface information

Programming Interface information

IXLYDLCC

End of Programming Interface information

IXLYDLCC Heading Information

Common Name: Dumping Local Cache Controls Mapping
Macro ID: IXLYDLCC
DSECT Name: Dlcc
Owning Component: Cross System Extended Services (SCIXL)
Eye-Catcher ID: None
Storage Attributes: Subpool: User Defined
 Key: User Defined
 Residency: User Defined
Size: DLCC -- X'0020' bytes
Created by: User
Pointed to by: User
Serialization: None required
Function: Provides a map of the dumping local cache controls

IXLYDLCC Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|---------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | DLCC | , Mapping for the local cache controls |
| 0 | (0) | SIGNED | 4 | DLCCNUMATTCHEDUSERS | Number of attached users |
| 4 | (4) | CHARACTER | 28 | | reserved |
| 4 | (4) | X'20' | 0 | DLCC_LEN | "*-DLCC" |

IXLYDLIC Programming Interface information

Programming Interface information

IXLYDLIC

End of Programming Interface information

IXLYDLIC Heading Information

Common Name: Dumping List Structure Controls Mapping
Macro ID: IXLYDLIC
DSECT Name: DLIC
Owning Component: Cross System Extended Services (SCIXL)
Eye-Catcher ID: None
Storage Attributes: Subpool: User Defined
 Key: User Defined
 Residency: User Defined
Size: DLICDUPLEXINGCONTROLS -- X'003C' bytes
 DLICREMOTEFACILITY -- X'003C' bytes
 DLIC -- X'0100' bytes
Created by: The IXLZSTR CF Structure Data Access Service in the user defined ANSAREA
Pointed to by: User
Serialization: None required
Function: Provides a map of the dumping List Structure controls.

IXLYDLIC Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | DLIC | Mapping for List Structure controls |
| 0 | (0) | CHARACTER | 23 | | Reserved |
| 23 | (17) | CHARACTER | 1 | DLICFLAGBYTE3 (0) | Flag Byte 3 (LEVEL1) |
| | | 1... .. | | DLICDUPLEXINGSTATE | "X'80" Duplexing State - Indicates that a structure is in a state of being duplexed (LEVEL11) |
| | |1.. | | DLICMONREAPPINPROGRESS | "X'04" Monitor reapportionment in progress indicator (LEVEL4). 1 indicates that the list structure monitor to entry storage ratio is being reapportioned. 0 indicates that the list structure monitor to entry storage ratio is not being reapportioned. |
| | |1. | | DLICREAPPINPROGRESS | "X'02" Entry reapportionment in progress indicator (LEVEL1). 1 indicates that the list structure entry to element storage ratio is being reapportioned. 0 indicates that the list structure entry to element storage ratio is not being reapportioned. |
| | |1 | | DLICSIZECHNGINPROGRESS | "X'01" Structure size change in progress indicator (LEVEL1) |
| 24 | (18) | SIGNED | 1 | DLICMAXDTLSTENTSIZ | Maximum data list entry size - specifies the maximum size of a data list entry as an integral multiple of the list element size. The valid values are 1-255 |
| 25 | (19) | CHARACTER | 1 | DLICFLAGBYTE2 (0) | Flag Byte 2 |
| 25 | (19) | BITSTRING | 1 | DLICLISTSTRTYPE (0) | List Structure type - indicates the list objects created on allocation |
| | | 1... .. | | DLICLISTSTR_SKI | "X'80" Secondary key indicator bit 0 0 ==> Secondary keys are not supported. 1 ==> Secondary keys are supported. (LEVEL9) |
| | | .1.. | | DLICLISTSTR_PLEIDI | "X'40" PLEID indicator, bit 1 - 0 indicates that the structure supports programmable list entry identifiers. (LEVEL8) |
| | | ..1. | | DLICLISTSTR_CI | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|---------------------|--|
| Dec | Hex | | | | |
| | | ...1 | | DLICLISTSTR_LOCK | "X'20" Counter indicator, bit 2 - 0 indicates that the list entry count and list entry count limit are defined. 1 indicates that the list element count and list element count limit are defined |
| | | 1... | | DLICLISTSTR_DATA | "X'10" Locks requested, bit 3 - 0 indicates that no lock table is allocated. 1 indicates that a lock table is allocated |
| | |1.. | | DLICLISTSTR_ADJ | "X'08" Data requested, bit 4 - 0 indicates that the list entries do not have data. 1 indicates that the list entries do have data |
| | |1. | | DLICLISTSTR_NSR | "X'04" Adj requested, bit 5 - 0 indicates that the list entries do not have adjunct data. 1 indicates that the list entries so do have adjunct data |
| | |1 | | DLICLISTSTR_KSR | "X'02" Name support, bit 6 - 0 indicates that the list entries are not named. 1 indicates that the list entries are named |
| 26 | (1A) | SIGNED | 1 | DLICLKTBLENTCHAR | "X'01" Key support, bit 7 - 0 indicates that the list entries are not keyed. 1 indicates that the list entries are keyed |
| | | | | | Lock-table-entry characteristic - specifies the number of bytes in each lock table entry. This is ignored if a lock table is not created |
| 27 | (1B) | SIGNED | 1 | DLICLSTELEMCHAR | List element characteristic - specifies the number of bytes in each element |
| 28 | (1C) | SIGNED | 4 | DLICMINSTRSIZE | Minimum Structure Size - specifies the minimum number of 4K units of facility storage that can be allocated for the list with the requested attributes. Note that the structure can be allocated smaller than this, but if so, structure attributes such as the entry/element ratio will differ significantly from those which were requested. |
| 32 | (20) | SIGNED | 4 | DLICLKTBLENTCT | Lock-table-entry count - specifies the number of lock table entries allocated. This is ignored if a lock table is not created |
| 36 | (24) | SIGNED | 4 | DLICLISTCT | List count - specifies the number of lists created |
| 40 | (28) | SIGNED | 4 | DLICSTRSIZE | Structure size - specifies the number of 4K units of facility storage allocated for the structure |
| 44 | (2C) | SIGNED | 4 | DLICMAXSTRSIZE | Maximum Structure size - specifies the max number of of 4K units of storage blocks that can be allocated |
| 48 | (30) | SIGNED | 4 | DLICTGTSTRSIZE | Target Structure Size - specifies the target number of 4K units for facility storage to be allocated for the list |
| 52 | (34) | SIGNED | 4 | DLICTGTMAXELEMCT | Target Maximum element count - specifies the target for the maximum number of list elements that are available for assignment to list entries or retry data blocks, or both |
| 56 | (38) | SIGNED | 4 | DLICTGTMAXENTRYCT | Target Maximum Entry Count - specifies the target for the maximum number of possible list entries in a list structure |
| 60 | (3C) | SIGNED | 4 | DLICMAXLSTSTRELEMCT | Maximum list structure element count - specifies the max number of list elements that are available for assignment to list entries. This count is only substantially accurate. |
| 64 | (40) | SIGNED | 4 | DLICLSTSTRELEMCT | List Structure element count - specifies the number of list elements that have been assigned to list entries. |
| 68 | (44) | SIGNED | 4 | DLICNZLKTBLENTCT | Nonzero lock-table-entry count - specifies the number of nonzero lock table entries that exist in the structure. This is ignored if the lock table is not created |
| 72 | (48) | SIGNED | 4 | DLICMAXLSTENTCT | |

IXLYDLIC Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-----------------------------|---|
| Dec | Hex | | | | |
| | | | | | Maximum list-structure-entry- count - specifies the maximum number of possible list entries in a list structure. This count is only substantially accurate. |
| 76 | (4C) | SIGNED | 4 | DLICLSTENTCT | List-structure-entry count - specifies the number of existing list entries in the list structure |
| 80 | (50) | CHARACTER | 16 | DLICSTRAUTH | Structure Authority - A 16 byte value associated with each bit in the SID vector |
| 96 | (60) | CHARACTER | 32 | DLICUSRSTRCNTL | |
| 128 | (80) | BITSTRING | 32 | DLICUIDVECTOR | User Structure Control - a 32 byte field defined by the user |
| | | | | | UID Vector - A bit string with an initial value of zero. A bit is set to one when a user is assigned with a user ID of i. The bit at position i is set to 0 when the user is unassigned |
| 160 | (A0) | SIGNED | 4 | DLICPENDENTTOELEMRA (0) | Pending entry to element ratio (LEVEL1) |
| 160 | (A0) | SIGNED | 2 | DLICPENDENTTOELEMENT | Pending entry to element ratio, entry portion (LEVEL1) |
| 162 | (A2) | SIGNED | 2 | DLICPENDENTTOELEMELM | Pending entry to element ratio, element portion (LEVEL1) |
| 164 | (A4) | SIGNED | 4 | DLICMARGINALSTRSIZE | Marginal structure size - true minimum size with which the structure can be allocated (LEVEL1) |
| 168 | (A8) | SIGNED | 4 | DLICEMCCT | Event monitor controls count - the number of event monitor controls objects which are currently in use in the structure (LEVEL3) |
| 172 | (AC) | SIGNED | 4 | DLICMAXEMCCT | Maximum event monitor controls count - the maximum number of event monitor controls, as currently allocated in the structure (LEVEL3) |
| 176 | (B0) | SIGNED | 4 | DLICTGTMAXEMCCT | Target maximum event monitor controls count - the target maximum number of event monitor controls (LEVEL3) |
| 180 | (B4) | SIGNED | 4 | DLICPENDMONTONENTRAT (0) | Pending monitor to entry storage ratio (LEVEL 4) |
| 180 | (B4) | SIGNED | 2 | DLICPENDMONTONENTMON | Pending monitor to entry ratio, monitor portion (LEVEL4) |
| 182 | (B6) | SIGNED | 2 | DLICPENDMONTONENTENT | Pending monitor to entry ratio, entry portion (LEVEL4) |
| 184 | (B8) | SIGNED | 4 | DLICLISTSETCURSOR | List Set Cursor storage ratio (LEVEL 8) |
| 188 | (BC) | SIGNED | 4 | DLICSTRCOPYCNTLVERSION | Structure copy controls version number (LEVEL 8) |
| 192 | (C0) | CHARACTER | 32 | DLICEXTUSERSTRCONTROLS | Extended user structure controls (LEVEL 8) |
| 224 | (E0) | CHARACTER | 1 | DLICMAXIMUMUSERID | Maximum User Identifier (LEVEL10) |
| 225 | (E1) | CHARACTER | 31 | | Reserved |
| 225 | (E1) | X'100' | 0 | DLIC_LEN | **-DLIC" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-----------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | DLICDUPLEXINGCONTROLS | Duplexing controls from the dump header |
| 0 | (0) | CHARACTER | 32 | DLICDUPCONNODEDESC | node descriptor |
| 32 | (20) | CHARACTER | 16 | DLICDUPCONSTRUCTAUTH | Structure authority |
| 48 | (30) | CHARACTER | 8 | DLICDUPCONSYSID | System id |
| 56 | (38) | CHARACTER | 2 | | reserved |
| 58 | (3A) | CHARACTER | 2 | DLICDUPCONSTRUCTUREID | |

| Offsets | | Type/Value | Len | Name (Dim) | Description | | |
|------------------|------|------------|-----|---------------------------|---------------------------|--|--|
| Dec | Hex | | | | | | |
| Structure Id | | | | | | | |
| Comment | | | | | | | |
| Length Constants | | | | | | | |
| End of Comment | | | | | | | |
| 58 | (3A) | X'100' | 0 | KDLIC_LEN | "256" Length of DLIC | | |
| 58 | (3A) | X'3C' | 0 | DLICDUPLEXINGCONTROLS_LEN | "*-DLICDUPLEXINGCONTROLS" | | |

IXLYDLIC Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|---------------------------|------------|-----------|------------------------|------------|-----------|
| DLIC | 0 | | DLICLSTENTCT | 1B | |
| DLIC_LEN | E1 | 100 | DLICLSTSTRELEMCT | 4C | |
| DLICDUPCONNODEDESC | 0 | | | 40 | |
| DLICDUPCONSTRUCTAUTH | 20 | | DLICMARGINALSTRSIZE | A4 | |
| DLICDUPCONSTRUCTUREID | 3A | | DLICMAXDTLSTENTSIZE | 18 | |
| DLICDUPCONSYSID | 30 | | DLICMAXEMCCT | AC | |
| DLICDUPLEXINGCONTROLS | 0 | | DLICMAXIMUMUSERID | E0 | |
| DLICDUPLEXINGCONTROLS_LEN | 3A | 3C | DLICMAXLSTENTCT | 48 | |
| DLICDUPLEXINGSTATE | 17 | 80 | DLICMAXLSTSTRELEMCT | 3C | |
| DLICEMCCT | A8 | | DLICMAXSTRSIZE | 2C | |
| DLICEXTUSERSTRCONTROLS | C0 | | DLICMINSTRSIZE | 1C | |
| DLICFLAGBYTE2 | 19 | | DLICMONREAPPINPROGRESS | 17 | 4 |
| DLICFLAGBYTE3 | 17 | | DLICNZLKTBLENTCT | 44 | |
| DLICLISTCT | 24 | | DLICPENDENTTOELEMCT | A2 | |
| DLICLISTSETCURSOR | B8 | | DLICPENDENTTOELEMENT | A0 | |
| DLICLISTSTR_ADJ | 19 | 4 | DLICPENDENTTOELEMCT | A0 | |
| DLICLISTSTR_CI | 19 | 20 | DLICPENDMONTENT | B6 | |
| DLICLISTSTR_DATA | 19 | 8 | DLICPENDMONTENTMON | B4 | |
| DLICLISTSTR_KSR | 19 | 1 | DLICPENDMONTENTRATIO | B4 | |
| DLICLISTSTR_LOCK | 19 | 10 | DLICREAPPINPROGRESS | 17 | 2 |
| DLICLISTSTR_NSR | 19 | 2 | DLICSIZECHNGINPROGRESS | 17 | 1 |
| DLICLISTSTR_PLEIDI | 19 | 40 | DLICSTRAUTH | 50 | |
| DLICLISTSTR_SKI | 19 | 80 | DLICSTRCOPYCNTLVERSION | BC | |
| DLICLISTSTRTYPE | 19 | | DLICSTRSIZE | 28 | |
| DLICLKTBLENTCHAR | 1A | | DLICGTMAXELEMCT | 34 | |
| DLICLKTBLENTCT | 20 | | DLICGTMAXEMCCT | B0 | |
| DLICLSTELEMCHAR | | | DLICGTMAXENTRYCT | 38 | |

IXLYDLIC Cross Reference

| Name | Hex Offset | Hex Value |
|----------------|---------------|--------------|
| DLICTGTSTRSIZE | 30 | |
| DLICUIDVECTOR | 80 | |
| DLICUSRSTRCNTL | 60 | |
| KDLIC_LEN | 3A | 100 |

IXLYDLUC Programming Interface information

Programming Interface information

IXLYDLUC

End of Programming Interface information

IXLYDLUC Heading Information

Common Name: Dumping List User Controls Mapping
Macro ID: IXLYDLUC
DSECT Name: Dluc
Owning Component: Cross System Extended Services (SCIXL)
Eye-Catcher ID: None
Storage Attributes: Subpool: User Defined
 Key: User Defined
 Residency: User Defined
Size: DLUC -- X'0020' bytes
Created by: User
Pointed to by: User
Serialization: None required
Function: Provides a map of the dumping list user controls

IXLYDLUC Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|---------------------|--------------------------------------|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | DLUC | , Mapping for the list user controls |
| 0 | (0) | SIGNED | 4 | DLUCNUMATTCHEDUSERS | Number of attached users |
| 4 | (4) | CHARACTER | 28 | | reserved |
| 4 | (4) | X'20' | 0 | DLUC_LEN | "*-DLUC" |

IXLYDNNB Programming Interface information

Programming Interface information

IXLYDNNB

End of Programming Interface information

IXLYDNNB Heading Information

Common Name: Cache Delete-Name-List Name Block
Macro ID: IXLYDNNB
DSECT Name: DNNB
Owning Component: Cross System Extended Services (SCIXL)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: User supplied
 Key: User supplied
 Residency: User supplied
Size: DNNB -- X'0020' bytes
Created by: IXLCACHE invoker
Pointed to by: BUFFER or BUFLIST parameter on IXLCACHE
Serialization: See BUFFER and BUFLIST parameter requirements on the IXLCACHE interface description.
Function: The DNNB maps the name blocks provided when the IXLCACHE macro is issued for a Delete_NameList request.

IXLYDNNB Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|--------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | DNNB | Cache Delete_NameList name block. |
| 0 | (0) | CHARACTER | 16 | DNNBNAME | Name of structure entry for which delete processing is to be performed. |
| 16 | (10) | CHARACTER | 8 | DNNBVERSCOMP | Comparative version. Used when version number comparison is requested via the VersCompType keyword. |
| 24 | (18) | CHARACTER | 8 | | Reserved |
| 32 | (20) | CHARACTER | 1 | DNNBEND (0) | End of DNNB |
| 32 | (20) | X'20' | 0 | DNNB_LEN | "*-DNNB" |

IXLYDSCC Programming Interface information

Programming Interface information

IXLYDSCC

End of Programming Interface information

IXLYDSCC Heading Information

Common Name: Dumping Storage Class Controls Mapping
Macro ID: IXLYDSCC
DSECT Name: Dsccl
Owning Component: Cross System Extended Services (SCIXL)
Eye-Catcher ID: None
Storage Attributes: Subpool: User Defined
 Key: User Defined
 Residency: User Defined
Size: DSCC -- X'0200' bytes
Created by: The IXLZSTR CF Structure Data Access Service in the user defined ANSAREA
Pointed to by: User
Serialization: None required
Function: Provides a map of the dumping storage class controls

IXLYDSCC Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | DSCC | Mapping for storage class controls |
| 0 | (0) | CHARACTER | 4 | | Reserved |
| 4 | (4) | SIGNED | 4 | DSCCREADHITCTR | Read Hit counter - the number of times the data was returned on a read request to cached data |
| 8 | (8) | SIGNED | 4 | DSCCREADMISSDIRHITCTR | Read Miss directory hit counter - the number of times a read request to cached data in the directory for which the data was not cached |
| 12 | (C) | SIGNED | 4 | DSCCREADMISSASNSUPCTR | Read miss assign suppressed counter - the number of times a read request to a name which was not assigned in the directory and the name assignment was intentionally suppressed |
| 16 | (10) | SIGNED | 4 | DSCCREADMISSNMEASNCTR | Read miss name assigned counter - The number of times a read request to a name which was not assigned in the directory and a directory entry was successfully assigned to the name |
| 20 | (14) | SIGNED | 4 | DSCCREADMISSTGTSTGCLFULCTR | Read miss target Stg Cl full counter - The number of times a read request to a name which was not assigned in the directory and a name assignment could not be completed due to a lack of resources in the target storage class |
| 24 | (18) | SIGNED | 4 | DSCCWRITEHITCHGEB0CTR | Write hit change bit 0 counter - The number of times unchanged data was written |
| 28 | (1C) | SIGNED | 4 | DSCCWRITEHITCHGEB1CTR | Write hit change bit 1 counter - The number of times changed data was written |
| 32 | (20) | SIGNED | 4 | DSCCWRITEMISSNOTREGCTR | Write miss not registered counter - The number of times a write request to data failed because connection interest was not previously registered, but required |
| 36 | (24) | SIGNED | 4 | DSCCWRITEMISSINVSTATECTR | Write miss invalid state counter - the number of times a write request to data failed because the named data already had cached changed data |
| 40 | (28) | SIGNED | 4 | DSCCWRITEMISSSTGTSTGCLFULCTR | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|--------------------------|--|
| Dec | Hex | | | | |
| | | | | | Write miss target Stg CI full counter - the number of times a write request to data failed because either the named data item was not identified to the structure and no directory entry resource was obtainable or no data entry resource could be obtained to contain the data |
| 44 | (2C) | SIGNED | 4 | DSCCDIRENTRECLAIMCTR | Directory entry reclaim counter - The number of times a directory entry was reclaimed |
| 48 | (30) | SIGNED | 4 | DSCCDATATABENTRECLAIMCTR | Data table entry reclaim counter - The number of times a data entry was reclaimed |
| 52 | (34) | SIGNED | 4 | DSCCXIDIRRECLAIMCTR | XI for directory reclaim counter - The number of times a cross-invalidation (XI) was performed as a result of a directory entry reclaim |
| 56 | (38) | SIGNED | 4 | DSCCXIWRITECTR | XI for write counter - The number of times a cross-invalidation (XI) was performed as a result of a request to write cached data |
| 60 | (3C) | SIGNED | 4 | DSCCXINAMEINVALIDCTR | XI for name invalidation counter - The number of times a cross-invalidation (XI) was performed as a result of a request to delete a named data item |
| 64 | (40) | SIGNED | 4 | DSCCXICOMPINVALIDCTR | XI for complement invalidation counter - The number of times a cross-invalidation (XI) was performed as an explicit connected user request to perform cross-invalidation for a named data item |
| 68 | (44) | SIGNED | 4 | DSCCCASTOUTCTR | Castout counter - The number of times data has been cast out |
| 72 | (48) | SIGNED | 4 | DSCCREFSIGMISSCTR | Reference signal miss counter - The number of named data items processed for process reference list command which was not found in the directory |
| 76 | (4C) | SIGNED | 4 | DSCCTGTSTGCLSSFULLCTR | Target storage class full counter - The number of times that directory entry allocation failed because the resources were unavailable and all named data items for the storage class had changed cached data |
| 80 | (50) | SIGNED | 4 | DSCCDIRENTCTR | Directory entry counter - The number of directory entries assigned to the storage class |
| 84 | (54) | SIGNED | 4 | DSCCDATAAREALEMCTR | Data area element counter - The number of data area elements assigned to the storage class |
| 88 | (58) | SIGNED | 4 | DSCCTOTALCHANGEDCOUNT | Total changed count - The number of directory entries in the storage class that are in a changed state |
| 92 | (5C) | SIGNED | 4 | DSCCDATAAREACTR | Data area counter - The number of data-area assigned to a storage class |
| 96 | (60) | SIGNED | 4 | DSCCCOMPREFLSTCTR | Completed reference lists counter - Processing of a reference list has been completed by initiating a reference signal for each name that is in the name list and is assigned to the directory |
| 100 | (64) | SIGNED | 4 | DSCCPARTCOMPREFLSTCTR | Partially completed reference lists counter - Processing of a reference list was abandoned due to the expiration of a model dependent timeout |
| 104 | (68) | SIGNED | 4 | DSCCXILCENREPLCTR | XI for LCEN replacement counter - The number of times a cross-invalidate (XI) signal was issued to satisfy a local-cache-entry-registration process |
| 108 | (6C) | SIGNED | 4 | DSCCWRITEUNCHXICTR | Write unchanged with XI counter - the number of times an entry was written unchanged requesting XI |

IXLYDSCC Cross Reference

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|-----------------------|--|
| Dec | Hex | | | | |
| 112 | (70) | SIGNED | 4 | DSCCUNCHWITHREGINTCTR | Unchanged directory entries with registered interest counter |
| 116 | (74) | CHARACTER | 10 | | Reserved |
| 126 | (7E) | SIGNED | 2 | DSCCREPEATFACTOR | Repeat factor - The number of times the reclaiming counts are initialized with the values in the reclaiming vector |
| 128 | (80) | CHARACTER | 128 | DSCCRECLAIMVECTOR | Reclaiming vector - The number of reclaims for named data items in the specified storage class |
| 256 | (100) | CHARACTER | 256 | | Reserved |
| 256 | (100) | X'200' | 0 | DSCC_LEN | "*-DSCC" |

IXLYDSCC Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------------------------|------------|-----------|----------------------------|------------|-----------|
| DSCC | 0 | | DSCCWRITEMISSGTSTGCLFULCTR | 28 | |
| DSCC_LEN | 100 | 200 | DSCCWRITEUNCHXICTR | 6C | |
| DSCCCASTOUTCTR | 44 | | DSCCXICOMPINVALIDCTR | 40 | |
| DSCCCOMPREFLSTCTR | 60 | | DSCCXIDIRRECLAIMCTR | 34 | |
| DSCCDATAAREACTR | 5C | | DSCCXILCENREPLCTR | 68 | |
| DSCCDATAAREAELEMCTR | 54 | | DSCCXINAMEINVALIDCTR | 3C | |
| DSCCDATATABENTRECLAIMCTR | 30 | | DSCCXIWRITECTR | 38 | |
| DSCCDIRENTCTR | 50 | | | | |
| DSCCDIRENTRECLAIMCTR | 2C | | | | |
| DSCCPARTCOMPREFLSTCTR | 64 | | | | |
| DSCCREADHITCTR | 4 | | | | |
| DSCCREADMISSASNSUPCTR | C | | | | |
| DSCCREADMISSDIRHITCTR | 8 | | | | |
| DSCCREADMISSNMEASNCTR | 10 | | | | |
| DSCCREADMISSTGTSTGCLFULCTR | 14 | | | | |
| DSCCRECLAIMVECTOR | 80 | | | | |
| DSCCREFSIGMISSCTR | 48 | | | | |
| DSCCREPEATFACTOR | 7E | | | | |
| DSCCTGTSTGCLSSFULLCTR | 4C | | | | |
| DSCCTOTALCHANGEDCOUNT | 58 | | | | |
| DSCCUNCHWITHREGINTCTR | 70 | | | | |
| DSCCWRITEHITCHGEB0CTR | 18 | | | | |
| DSCCWRITEHITCHGEB1CTR | 1C | | | | |
| DSCCWRITEMISSINVSTATECTR | 24 | | | | |
| DSCCWRITEMISSNOTREGCTR | 20 | | | | |

IXLYEEPL Programming Interface information

Programming Interface information

IXLYEEPL

End of Programming Interface information

IXLYEEPL Heading Information

Common Name: Event Exit Parameter List
Macro ID: IXLYEEPL
DSECT Name: EEPL
Owning Component: Cross System Extended Services (SCIXL)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: 203
 Key: 0
 Residency: Above 16 MB in virtual storage.
Size: EEPL -- X'0100' bytes
 EEPLLOSSCONNINFO -- X'0001' bytes
 EEPLREBUILDQUIESCEINFO -- X'0004' bytes
 EEPLREBUILDCONNECTSCOMPLETEINFO -- X'0048' bytes
 EEPLUSERSYNCPPOINTINFO -- X'004C' bytes
 EEPLVOLATILITYSTATECHANGEINFO -- X'0001' bytes
 EEPLXESRECOMMENDACTIONINFO -- X'0002' bytes
 EEPLLOSSCONNPCTNOTIFYINFO -- X'0002' bytes
 EEPLALTERBEGININFO -- X'0014' bytes
 EEPLALTERENDINFO -- X'0058' bytes
 EEPLSTRAVAILABILITYINFO -- X'0009' bytes
 EEPLSTRSTATECHANGEINFO -- X'004C' bytes
Created by: IXLX1EEI
Pointed to by: R1 points to a word which contains the address
 of the EEPL on entry to the event exit
Serialization: None required
Function: Mapping of parameter list for event exit.
 The event exit is identified by user on IXLCONN.

IXLYEEPL Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|--------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | EEPL | Event exit parameter list |
| 0 | (0) | CHARACTER | 24 | EEPLCONNINFOTARGET | This section contains information about the connector whose event exit has been driven. |
| 0 | (0) | CHARACTER | 16 | EEPLCONTOKEN | Connect token of the connector whose event exit is driven. |
| 16 | (10) | BITSTRING | 8 | EEPLCONDATA | Connect-time data of the connector whose event exit is driven. This field is user defined data provided as input to IXLCONN. |
| 24 | (18) | CHARACTER | 60 | EEPLGENERALINFO | This section contains general information about the event |
| 24 | (18) | SIGNED | 2 | | Reserved |
| 26 | (1A) | SIGNED | 2 | EEPLEVENT | Event code. See event constants defined below. For a description of event type and identification see prolog NOTES. |
| 28 | (1C) | SIGNED | 4 | EEPLEVENTSEQ | Event Sequence Number. |
| 32 | (20) | SIGNED | 4 | EEPLRETCODE | Event exit return code. Values are defined in IXLYCON. This can be set within the exit's recovery as well and will be honored in that case too. |
| 36 | (24) | CHARACTER | 12 | EEPLOPERATORINFO | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------------------|-----|-------------------------------------|--|
| Dec | Hex | | | | |
| | | | | | Applicable only for events that were initiated by the operator. For rebuild events (see prolog): IXLREBLD REQUEST=START or REQUEST=STARTDUPLEX, STARTREASON=OPERATOR => For all rebuild events except rebuild process complete, when EeplRebuildStartReason indicates the rebuild was initiated by the operator. IXLREBLD REQUEST=STOP or REQUEST=STOPDUPLEX, STOPREASON=OPERATOR => For rebuild stop event, when EeplRebuildStopReason indicates the rebuild was stopped by the operator. Note that for a stop of a duplexing rebuild, the stop may either initiate a true rebuild stop event, or may initiate a switch event |
| 36 | (24) | CHARACTER | 8 | EEPLCART | CART associated with operator. See EeplOperatorInfo. |
| 44 | (2C) | SIGNED | 4 | EEPLCONSID | Console id associated with operator. See EeplOperatorInfo. |
| 48 | (30) | CHARACTER | 16 | EEPLSTRNAME | Structure Name. |
| 64 | (40) | CHARACTER | 8 | EEPLSTRUCTUREVERSION | Structure Version. See EeplStrStateStrVersionFlag to determine the structure instance represented. |
| 64 | (40) | CHARACTER | 8 | EEPLSTRPHYSICALVERSION | Physical version for the structure. Changes when a new instance of the structure is allocated, as in a user-managed or system-managed rebuild, and there is at least one active connector to observe the allocation. |
| 72 | (48) | BITSTRING 1... | 1 | EEPLSTRSTATE EEPLSTRSTATEREBUILD | Provides structure state indicators "X'80" On => Structure rebuild process is in progress for this structure. Off => Structure rebuild process is not in progress for this structure. A structure rebuild process is initiated either by IXLREBLD or SETXCF operator command. There are two types (rebuild and duplexing rebuild) indicated by EeplStrStateRebuildDuplex. There are two methods (user-managed and system-managed) indicated by EeplStrStateProcessMethod. |
| | | .1.. | | EEPLSTRSTATEREBUILDSTOP | "X'40" Only valid if EeplStrStateRebuild is on. A structure rebuild process is stopped either by IXLREBLD or SETXCF operator command. On => Structure rebuild process has been stopped. Off => Structure rebuild process has not been stopped. |
| | | ..1. | | EEPLSTRSTATEFPERSISTENTCNNS | "X'20" On => Failed persistent connections existed when the structure rebuild process was initiated. Bit is valid for all rebuild events except rebuild process complete and rebuild stop process complete. |
| | | ...1 | | EEPLSTRSTATESTRVERSIONFLAG | "X'10" Indicates the instance represented by EeplStructureVersion. Off => Structure version is for the only/old/primary instance of the structure. On => Structure version is for the new/secondary instance and structure rebuild process is in progress (EeplStrStateRebuild is on). |
| | | 1... | | EEPLSTRSTATEREBUILDDDUPLEX | "X'08" Indicates the type of structure rebuild process. On => duplexing rebuild, Off => rebuild (may also be referred to as non-duplexing rebuild). Only valid when EeplStrStateRebuild is on. |
| | |1.. | | EEPLSTRFAILDUPLEXOUTOFSYNCH | "X'04" On => The structure has failed as the result of an out of synch condition detected by a duplexed request issued during the duplex established phase of a system-managed duplexing rebuild. Only valid for structure failure event. |
| | |1 | | EEPLSTRSTATEPROCESSMETHOD | "X'01" On => The process in progress is system-managed, Off => the process in progress is user-managed. This indicator describes the method of the process when EeplStrStateRebuild is indicated. |

IXLYEEPL Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|---------------------------|--|
| Dec | Hex | | | | |
| 73 | (49) | SIGNED | 1 | EEPLREBUILDSTARTREASON | This field is valid for all rebuild events except rebuild process complete and rebuild stop process complete. Constants are declared below for all possible rebuild start reasons. The constant names begin with "EeplStartRsn". |
| 74 | (4A) | SIGNED | 1 | EEPLREBUILDSTOPREASON | This field is valid for all rebuild events except rebuild process complete and rebuild stop process complete. The field will be zero until a rebuild stop is initiated. Constants are declared below for all possible rebuild stop reasons. The constant names begin with "EeplStopRsn". |
| 75 | (4B) | SIGNED | 1 | EEPLREBUILDPCTLOSSCONN | Percent lossconn. Will contain a nonzero value only for an MVS-initiated rebuild due to loss of connectivity. Valid for all rebuild events except rebuild process complete and rebuild stop process complete. |
| 76 | (4C) | SIGNED | 4 | EEPLSTARTRSNCONNECTORCODE | This field is valid when EeplRebuildStartReason is set to EeplStartRsnConnector. EeplStartRsnConnectorCode is a user defined value provided as input on IXLREBLD. |
| 80 | (50) | SIGNED | 4 | EEPLSTOPRSNCONNECTORCODE | This field is valid when EeplRebuildStopReason is set to EeplStopRsnConnector. EeplStopRsnConnectorCode is a user defined value provided as input on IXLREBLD. |
| 84 | (54) | CHARACTER | 68 | EEPLCONNINFOSUBJECT | This section contains information about the connection which is the subject of the event. Connection events have a subject. See the event constants defined below for a description of Connection events. For a description of event type and identification see prolog NOTES. |
| 84 | (54) | SIGNED | 3 | EEPLSUBJCONID | Reserved |
| 87 | (57) | SIGNED | 1 | | Connection identifier. |
| 88 | (58) | CHARACTER | 16 | EEPLSUBJCONTOKEN | Connect token of user that is subject of the event. |
| 104 | (68) | CHARACTER | 16 | EEPLSUBJCONNAME | Connect Name of the user that is the subject of the event. |
| 120 | (78) | SIGNED | 4 | EEPLSUBJCONVERSION | Connection version |
| 124 | (7C) | CHARACTER | 8 | EEPLSUBJSYSNAME | System name corresponding to the user designated by EeplSubjContoken. |
| 132 | (84) | BITSTRING | 1 | EEPLSUBJFLAGS | These flags provide additional information about the subject connection. |
| | | 1... | | EEPLSUBJDISPOSITIONKEEP | "X'80" On => Connection disposition is KEEP, Off => Connection disposition is DELETE (not persistent). |
| | | .1... | | EEPLSUBJFAILISOL | "X'40" This flag is valid for the EeplExistingConnection (when EeplStateActive is on), EeplRebuildExistingConnection (when EeplStateActive is on), EeplNewConnection, and EeplRebuildNewConnection events and when EeplSubjInfoLevel is equal to or greater than EeplSubjInfoLevel1. On => Connection is failure isolated with respect to the structure described by EeplStrname and EeplStructureVersion. |
| 133 | (85) | BITSTRING | 1 | EEPLFAILEDCONNFLAGS | These flags provide additional information only for the disconnected/failed connection event. |
| | | 1... | | EEPLTERMINATEDABNORMAL | "X'80" On => connection was terminated by a task, address space, system failure or a disconnect w/ REASON=FAILURE. Off => connection was terminated normally via disconnect REASON=NORMAL. |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|---------------------------|---|
| Dec | Hex | | | | |
| | | .1.. | | EEPLDISCWITHLOCKRESOURCES | "X'40" On => Disconnect was issued when Lock resources were still held. |
| | | ..1. | | EEPLDISCFROMNEWSTRALSO | "X'20" On => Connection was disconnected from the new structure during rebuild in addition to the disconnect from the old structure. |
| 134 | (86) | BITSTRING | 1 | EEPLEXISTINGCONNFLAGS | These flags provide additional information about the Existing Connection and Rebuild Existing Connection event |
| | | 1... | | EEPLSTATEACTIVE | "X'80" On => Connection is active, Off => Connection is failed-persistent. |
| | | .1.. | | EEPLDUMMYLASTEVENT | "X'40" This flag is valid for the EeplExistingConnection and EeplRebuildExistingConnection events. On => Dummy event indicating that all existing connection events have been received. Off => real event, more existing connection events to be presented to the event exit. Note: When the EeplDummyLastEvent bit is ON in the EEPL, the only other EEPL fields set are in the following sections: EeplGeneralInfo and EeplConnInfoTarget |
| | | ..1. | | EEPLFPATIXLCONN | "X'20" This flag is valid for the EeplExistingConnection event. On => The connection was failed persistent at the time this connection connected. EeplStateActive will also be on since the connection is now active. Off => Connection was either active or failed persistent at the time this connection connected. Use EeplStateActive to determine connection state. |
| | | ...1 | | EEPLNOTCONNSTR | "X'10" This flag is valid for the EeplExistingConnection and EeplRebuildExistingConnection events. On => The connection had lost connectivity to the structure prior to the target connection connecting to the structure. Off => Connection has not lost connectivity. |
| 135 | (87) | CHARACTER | 1 | | Reserved. |
| 136 | (88) | CHARACTER | 8 | EEPLSUBJCONLEVEL | User specified connection version/release level. |
| 144 | (90) | CHARACTER | 8 | EEPLSUBJDISCDATA | Disconnect-time data for the connector who is the subject of the disconnect failed connection, existing connection, or rebuild existing connection event. |
| 152 | (98) | CHARACTER | 16 | EEPLCONNINFOSUBJECT2 | This section contains information about the connection which is the subject of the event. Connection events have a subject. See the event constants defined below for a description of Connection events. For a description of event type and identification see prolog NOTES. |
| 152 | (98) | SIGNED | 4 | EEPLSUBJCFLEVEL | Connect-time specified value for CFLEVEL. |
| 156 | (9C) | SIGNED | 1 | EEPLSUBJINFOLEVEL | Information level of the information presented for the subject connection |
| 157 | (9D) | CHARACTER | 11 | | Reserved. |
| 168 | (A8) | CHARACTER | 88 | EEPLEVENTSPECIFICINFO | This section contains event specific information. This area is mapped differently for each event. |
| 168 | (A8) | X'100' | 0 | EEPL_LEN | "*-EEPL" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|------------------|-------------|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | EEPLLOSSCONNINFO | |

IXLYEEPL Map

| Offsets | | | | | |
|---------|-----|------------------------|-----|--|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | BITSTRING 1... | 1 | EEPLLOSSCONNSTRFLAGS EEPLLOSSCONNSTRNEW | Mapping of EeplEventSpecificInfo for the loss of connectivity event. (EeplLossConn). "X'80" This bit is only valid when EeplStrStateRebuild is ON and EeplStrStateProcessMethod is OFF. On => connectivity was lost to the new/secondary instance allocated for structure rebuild process. Off => connectivity was lost to the only/old/primary instance. |
| | | .1... | | EEPLLOSSCONNDELAYACTION | "X'40" This bit is for use when the target and subject connection are the same to support delaying connection action. When target and subject are different there is no action required of the target connection. On => The connection that is the subject of the event should delay decision on action to disconnect or start rebuild of structure since XESrecommendaaction, lossconn percentage notification, or structure rebuild quiesce event will be delivered. Off => no additional information available to aid in decision to disconnect or rebuild structure. The subject connection which lost connectivity must either disconnect or start rebuild. |
| 1 | (1) | X'1' | 0 | EEPLLOSSCONNINFO_LEN | "*-EEPLLOSSCONNINFO" |

| Offsets | | | | | |
|---------|-----|------------------------|-----|---|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | EEPLREBUILDQUIESCEINFO | Mapping of EeplEventSpecificInfo for the rebuild quiesce event (EeplRebuildQuiesce). |
| 0 | (0) | BITSTRING 1... | 4 | EEPLREBUILDQUIESCEINFOFLAGS EEPLREBUILDQUIESCELCCONT | Flags for rebuild process attributes "X'80" LESSCONNACTION attribute indicator. 0==>rebuild is LESSCONNACTION=TERMINATE, 1==>rebuild is LESSCONNACTION= CONTINUE |
| | | .1... | | EEPLREBUILDQUIESCELOCOTHER | "X'40" LOCATION attribute indicator. 0==>rebuild is LOCATION=NORMAL, 1==>rebuild is LOCATION=OTHER |
| 4 | (4) | X'4' | 0 | EEPLREBUILDQUIESCEINFO_LEN | "*-EEPLREBUILDQUIESCEINFO" |

| Offsets | | | | | |
|---------|------|------------|-----|-------------------------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | EEPLREBUILDCONNECTSCOMPLETEINFO | Mapping of EeplEventSpecificInfo for the rebuild connects complete event (EeplRebuildConnectsComplete). |
| 0 | (0) | CHARACTER | 32 | EEPLCONNSACTIVE | Bit string representing the set of active connections at the time all connections had attempted to do a rebuild connect. The bit position maps to a connection identifier. See the block comment above for a description. |
| 32 | (20) | CHARACTER | 32 | EEPLCONNSSUCCESSFUL | Bit string representing the set of connections that successfully did a rebuild connect. See the block comment above for a description. |
| 64 | (40) | SIGNED | 4 | EEPLCONNSACTIVETOTAL | Count of ON bits in the EeplConnsActive bit string. |
| 68 | (44) | SIGNED | 4 | EEPLCONNSSUCCESSFULTOTAL | Count of ON bits in the EeplConnsSuccessful bit string. |
| 68 | (44) | X'48' | 0 | EEPLREBUILDCONNECTSCOMPLETEINFO_LEN | "*-EEPLREBUILDCONNECTSCOMPLETEIN" |

| Offsets | | | | | |
|---------|------|------------|-----|----------------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | EEPLUSERSYNCPPOINTINFO | Mapping of EeplEventSpecificInfo for the User Sync Point event (EeplUserSyncPoint). |
| 0 | (0) | SIGNED | 4 | EEPLCOMPLETEDUSEREVENT | |
| 4 | (4) | SIGNED | 4 | EEPLNEXTUSEREVENT | |
| 8 | (8) | CHARACTER | 32 | EEPLCOMPLETEDUSERSTATE | |
| 40 | (28) | CHARACTER | 32 | EEPLNEXTUSERSTATE | |
| 72 | (48) | SIGNED | 4 | EEPLCOMPLETEDUSERCOMPCODE | Highest completion code value for the completed user sync point, as set by any confirming user or implicitly by XES when a connector failed or disconnected |
| 72 | (48) | X'4C' | 0 | EEPLUSERSYNCPPOINTINFO_LEN | ** -EEPLUSERSYNCPPOINTINFO" |

| Offsets | | | | | |
|---------|-----|------------------------|-----|---|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | EEPLVOLATILITYSTATECHANGEINFO | Mapping of EeplEventSpecificInfo for the volatility state change event (EeplVolatilityStateChange). |
| 0 | (0) | BITSTRING 1... | 1 | EEPLVOLATILITYSTATECHANGEFLAGS EEPLVOLATILENEW | "X'80" This bit is only valid when EeplStrStateRebuild is ON and EeplStrStateProcessMethod is OFF. For system-managed process, the bit will be off. On => the volatility state change event is for the new/secondary instance allocated for structure rebuild process. Off => the volatility state change event is for the only/old/primary instance. |
| | | .1... | | EEPLVOLATILE | "X'40" Off => structure is non-volatile, On => structure is volatile. |
| 1 | (1) | X'1' | 0 | EEPLVOLATILITYSTATECHANGEINFO_LEN | ** -EEPLVOLATILITYSTATECHANGEINFO" |

| Offsets | | | | | |
|---------|-----|------------------------|-----|---|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | EEPLXESRECOMMENDACTIONINFO | Mapping of EeplEventSpecificInfo for the XES recommend action event (EeplXESrecommendAction). |
| 0 | (0) | BITSTRING 1... | 1 | EEPLXESRECOMMENDACTIONFLAGS EEPLXESRECOMMENDACTIONPOLICY | "X'80" On => Policy available for determining action recommended by XES. |
| | | .1... | | EEPLXESRECOMMENDACTIONDISCONNECT | "X'40" On => Action is disconnect. |
| 1 | (1) | SIGNED | 1 | EEPLXESRECOMMENDACTIONPCTLOSSCONN | When delivered subsequent to a LOSSCONN event and policy was available for evaluating the scope of the loss of connectivity in terms of SFM policy weights, indicates the percentage loss of connectivity as viewed by the system presented with this event. There is no guarantee that all connectors will be presented with the same percentage value. |
| 1 | (1) | X'2' | 0 | EEPLXESRECOMMENDACTIONINFO_LEN | ** -EEPLXESRECOMMENDACTIONINFO" |

| Offsets | | | | | |
|---------|-----|------------|-----|----------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | EEPLLOSSCONNPNCTNOTIFYINFO | Mapping of EeplEventSpecificInfo for the Lossconn percentage notification event (EeplLossconnPctNotify). |
| 0 | (0) | BITSTRING | 1 | | Unused |

IXLYEEPL Map

| Offsets | | | | | |
|---------|-----|------------|-----|----------------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 1 | (1) | SIGNED | 1 | EEPLLOSSCONNPCTNOTIFYPCTLOSSCONN | When delivered subsequent to a LOSSCONN event and policy was available for evaluating the scope of the loss of connectivity in terms of SFM policy weights, indicates the percentage loss of connectivity as viewed by the system presented with this event. There is no guarantee that all connectors will be presented with the same percentage value. |
| 1 | (1) | X'2' | 0 | EEPLLOSSCONNPCTNOTIFYINFO_LEN | **-EEPLLOSSCONNPCTNOTIFYINFO" |

| Offsets | | | | | |
|---------|------|------------|-----|---------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | EEPLALTERBEGININFO | Mapping of EeplEventSpecificInfo for the begin structure alter event. |
| 0 | (0) | BITSTRING | 1 | EEPLALTERBEGINFLAGS | Structure alter flags |
| | | 1... | | EEPLALTERBEGINSIZE | "X'80" '1'b => value for size specified |
| | | .1.. | | EEPLALTERBEGINRATIO | "X'40" '1'b => value for ratio specified |
| | | ..1. | | EEPLALTERBEGINEMCSTG | "X'20" '1'b => value for EmcStg specified |
| | |1. | | EEPLALTERBEGINDUPREBLDOLD | "X'02" '1'b => values pertain to Rebuild Old (primary) structure instance. Only valid when EeplStrStateRebuild is ON, EeplStrStateRebuildDuplex is ON, and EeplStrStateProcessMethod is OFF. |
| | |1 | | EEPLALTERBEGINDUPREBLDNEW | "X'01" '1'b => values pertain to Rebuild New (Secondary) structure instance. Only valid when EeplStrStateRebuild is ON, EeplStrStateRebuildDuplex is ON, and EeplStrStateProcessMethod is OFF. |
| 1 | (1) | CHARACTER | 3 | | Reserved |
| 4 | (4) | SIGNED | 4 | EEPLALTERSIZE | Requested size in 4K blocks if EeplAlterBeginSize is on |
| 8 | (8) | SIGNED | 2 | EEPLALTERENTRYRATIO | Requested entry portion of entry-to-element ratio if EeplAlterBeginRatio is on |
| 10 | (A) | SIGNED | 2 | EEPLALTERELEMENTRATIO | Requested element portion of entry-to-element ratio if EeplAlterBeginRatio is on |
| 12 | (C) | CHARACTER | 6 | EEPLALTERCOMPOSITE | |
| 12 | (C) | BITSTRING | 2 | EEPLALTERCOMPOSITEFLAGS | |
| | | 1... | | EEPLALTERRATIO | "X'80" '1'b => permit ratio change RATIO=YES for all connections |
| 14 | (E) | SIGNED | 1 | EEPLALTERMINENTRY | % available entries |
| 15 | (F) | SIGNED | 1 | EEPLALTERMINELEMENT | % available elements |
| 16 | (10) | SIGNED | 1 | EEPLALTERMINEMC | % available EMCs |
| 17 | (11) | SIGNED | 1 | | reserved |
| 18 | (12) | SIGNED | 2 | EEPLALTEREMCSTGPCT | Requested percent of structure to be available for Event Monitor Controls when an EmcStgPct change is requested. |
| 18 | (12) | X'14' | 0 | EEPLALTERBEGININFO_LEN | **-EEPLALTERBEGININFO" |

| Offsets | | | | | |
|---------|-----|------------|-----|-----------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | EEPLALTERENDINFO | Mapping of EeplEventSpecificInfo for the structure alter end event. |
| 0 | (0) | BITSTRING | 1 | EEPLALTERENDFLAGS | Structure alter end flags |
| | | 1... | | EEPLALTERENDSIZE | "X'80" '1'b => value for size specified |
| | | .1.. | | EEPLALTERENDRATIO | "X'40" '1'b => value for ratio specified |
| | | ..1. | | EEPLALTERENDEMCSTG | "X'20" '1'b => value for EmcStg specified |
| | |1. | | EEPLALTERENDDUPREBLDOLD | "X'02" '1'b => values pertain to Rebuild Old (primary) structure instance. Only valid when EeplStrStateRebuild is ON, EeplStrStateRebuildDuplex is ON, and EeplStrStateProcessMethod is OFF. |
| | |1 | | EEPLALTERENDDUPREBLDNEW | "X'01" '1'b => values pertain to Rebuild New (Secondary) structure instance. Only valid when EeplStrStateRebuild is ON, EeplStrStateRebuildDuplex is ON, and EeplStrStateProcessMethod is OFF. |
| 1 | (1) | CHARACTER | 1 | | |
| 2 | (2) | BITSTRING | 2 | EEPLALTERENDSTATEFLAGS | At least one flag bit will be set. |
| 2 | (2) | BITSTRING | 1 | EEPLALTERENDSTATUSFLAG1 | If any flags set in this field then size and counts below will be valid. |
| | | 1... | | EEPLALTERENDALL | "X'80" Processing able to meet the specified targets |
| | | .1.. | | EEPLALTERENDSOME | "X'40" Processing not able to meet the specified targets |
| | | ..1. | | EEPLALTERENDREBLD | "X'20" XES stopped the alter request due to rebuild initiated for structure. EeplAlterEndAll or EeplAlterEndSome will also be set, to indicate whether all or some targets were met. |
| 3 | (3) | BITSTRING | 1 | EEPLALTERENDSTATUSFLAG2 | If any flags set in this field then size and counts below will be zero. |
| | | 1... | | EEPLALTERENDSTRFAIL | "X'80" XES did not complete the alter request due to structure failure. |
| | | .1.. | | EEPLALTERENDLOSSCONN | "X'40" XES did not complete the alter request due to no connectivity to the structure. |
| | | ..1. | | EEPLALTERENDSTOPBEFORESTART | "X'20" XES did not complete the alter request due to a request to stop the initial alter, or due to structure rebuild being initiated. The request to stop the alter was received before any coupling facility operations with respect to the original alter request could be performed. The structure was not changed by the initial alter request. |
| | | ...1 | | EEPLALTERENDREQEXCEPTION | "X'10" Ratios specified on alter request are not consistent with structure attributes. For example, a structure alter to change the ratio of a structure created without data is rejected. |
| | | 1... | | EEPLALTERENDREBLDDEALLOC | "X'08" An alter was initiated during a duplexing rebuild, but the duplexing rebuild was stopped before the alter completed. This structure instance will be deallocated when the duplexing rebuild completes, so the alter for this instance is being stopped. |
| 4 | (4) | CHARACTER | 16 | EEPLALTERENDCURRENTVALUES | Current sizes and counts for the structure |
| 4 | (4) | SIGNED | 4 | EEPLALTERENDMINSTRSIZE | |

IXLYEEPL Map

| Offsets | | | | | |
|---------|------|------------|-----|-------------------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| | | | | | Current minimum structure size which is similar to either ConaMinStructureSize or ConaFacilityMinReqSize |
| 8 | (8) | SIGNED | 4 | EEPLALTERENDCURRENTSIZE | Current size |
| 12 | (C) | SIGNED | 4 | EEPLALTERENDENTRYCOUNT | Current entry count. This count is only substantially accurate. |
| 12 | (C) | SIGNED | 4 | EEPLALTERENDDIRCOUNT | Current directory count. This count is only substantially accurate. |
| 12 | (C) | SIGNED | 4 | EEPLALTERENDRECORDELEMENTS | Current record element count. This count is only substantially accurate. |
| 16 | (10) | SIGNED | 4 | EEPLALTERENDELEMOUNT | Current element count. This count is only substantially accurate. |
| 20 | (14) | CHARACTER | 28 | EEPLALTERENDTARGETVALUES | Target size and counts determined by the coupling facility. |
| 20 | (14) | SIGNED | 4 | EEPLALTERENDTARGETSIZE | Target size |
| 24 | (18) | SIGNED | 4 | EEPLALTERENDTARGETENTRYCOUNT | Target entry count |
| 24 | (18) | SIGNED | 4 | EEPLALTERENDTARGETDIRCOUNT | Target directory count |
| 24 | (18) | SIGNED | 4 | EEPLALTERENDTARGETRECORDELEMENTS | Target record element count. |
| 28 | (1C) | SIGNED | 4 | EEPLALTERENDTARGETELEMOUNT | Target element count |
| 32 | (20) | SIGNED | 4 | EEPLALTERENDTARGETEMCCOUNT | Target Event Monitor Controls count |
| 36 | (24) | CHARACTER | 12 | | Reserved |
| 48 | (30) | CHARACTER | 20 | EEPLALTERENDADDITIONALCURRENTVALUES | Additional current values for structure |
| 48 | (30) | SIGNED | 4 | EEPLALTERENDEMCCOUNT | Current Event Monitor Control count. This value is only substantially accurate. |
| 52 | (34) | CHARACTER | 16 | | Reserved |
| 68 | (44) | CHARACTER | 20 | | Reserved |
| 68 | (44) | X'58' | 0 | EEPLALTERENDINFO_LEN | **-EEPLALTERENDINFO" |

| Offsets | | | | | |
|---------|-----|------------|-----|--------------------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | EEPLSTRAVAILABILITYINFO | Mapping of EeplEventSpecificInfo for events structure temporarily unavailable (EeplStrTemporarilyUnavailable) and structure available (EeplStrAvailable). |
| 0 | (0) | CHARACTER | 8 | EEPLSTRAVAILABILITYAUTOVERSION | System-managed process version |
| 8 | (8) | SIGNED | 1 | EEPLSTRAVAILABILITYPROCESS | System-managed process identification. See Process Constants for definitions. |
| 8 | (8) | X'9' | 0 | EEPLSTRAVAILABILITYINFO_LEN | **-EEPLSTRAVAILABILITYINFO" |

| Offsets | | | | | |
|---------|-----|------------|-----|------------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | EEPLSTRSTATECHANGEINFO | Mapping of EeplEventSpecificInfo for the structure state change event |
| 0 | (0) | CHARACTER | 8 | EEPLSSCAUTOVERSION | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|---------------------------------|--|
| Dec | Hex | | | | |
| 8 | (8) | SIGNED | 1 | EEPLSSCprocesstype | System-managed process version. Valid when EeplSSCProcessType is set to EeplSysManagedRebuild or EeplSysManagedDuplexingRebuild. |
| 9 | (9) | BITSTRING | 2 | EEPLSSCVALIDITYFLAGS | Type of process that caused the structure state change. See Process Constants for definitions. |
| | | 1... | | EEPLSSCCFLEVELVALID | Flags identifying which fields contain valid information about characteristics of the structure. These flags serve as validity indicators for the fields in EeplSSCCharacteristics. |
| | | .1.. | | EEPLSSCCFNAMEVALID | "X'80" '1'b => Coupling facility operational level of the coupling facility in which the structure resides is valid |
| | | ..1. | | EEPLSSCVOLATILEVALID | "X'40" '1'b => CFNAME of coupling facility in which the structure resides is valid |
| | | ...1 | | EEPLSSCSTRPHYSICALVERSIONVALID | "X'20" '1'b => Volatility characteristic of the coupling facility in which the structure resides is valid |
| | | 1... | | EEPLSSCFailureIsolateValid | "X'10" '1'b => Physical structure version number field is valid |
| | |1.. | | EEPLSSCSTRPHYSICALVERSION2VALID | "X'08" '1'b => Structure failure isolation state is valid |
| | |1. | | EEPLSSCDUPLEXSTATEVALID | "X'04" '1'b => 2nd physical structure version number field is valid |
| 9 | (9) | BITSTRING | 1 | | "X'02" '1'b => Duplexing state is valid |
| 11 | (B) | BITSTRING | 1 | | Reserved |
| 12 | (C) | CHARACTER | 64 | EEPLSSCCHARACTERISTICS | Reserved |
| | | | | | Current characteristics of the structure and the coupling facility in which it resides. Information in this section is valid only if the corresponding validity flag in field EeplSSCValidityFlags is set. |
| 12 | (C) | BITSTRING | 4 | EEPLSSCCHARACTERISTICFLAGS | Flags describing the current characteristics |
| | | 1... | | EEPLSSCVOLATILE | "X'80" '1'b => Structure resides in a volatile coupling facility. Valid only if EeplSSCVolatileValid set. |
| | | .1.. | | EEPLSSCSYSGDDUPLEXED | "X'40" '1'b => Structure is duplexed by system-managed duplexing. Valid only if EeplSSCDuplexStateValid is set. |
| | | ..1. | | EEPLSSCSYSGDDUPLEXEDFAILISOL | "X'20" '1'b => the primary structure instance is failure isolated from the secondary structure instance. '0'b => the primary structure instance is not failure isolated from the secondary structure instance. Valid only if EeplSSCDuplexStateValid is set. |
| 12 | (C) | BITSTRING | 3 | | Reserved |
| 16 | (10) | SIGNED | 4 | EEPLSSCCFLEVEL | Coupling facility operational level of the coupling facility in which the structure resides. Valid only if EeplSSCCflevelValid set. |
| 20 | (14) | CHARACTER | 8 | EEPLSSCCFNAME | Name of coupling facility in which the structure resides. Valid only if EeplSSCCfnameValid set. |
| 28 | (1C) | CHARACTER | 32 | EEPLSSCFailureIsolate | Indicates failure isolation status with respect to the structure at the time the event was added to the event stack. If the bit corresponding to a connector's connection ID is on, that connector is active and failure-isolated with respect to the structure. If the bit is off, either the corresponding connector is not active, or is active but not failure-isolated with respect to the structure. Valid only if EeplSSCFailureIsolateValid set. |
| 60 | (3C) | CHARACTER | 8 | EEPLSSCSTRPHYSICALVERSION | |

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| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---|------|------------|-----|-------------------------------|--|
| Dec | Hex | | | | |
| 68 | (44) | CHARACTER | 8 | EEPLSSCSTRPHYSICALVERSION2 | Physical structure version number. This field, along with EeplSSCStrPhysicalVersion2, uniquely identifies a physical instance of the structure. Valid only if EeplSSCStrPhysicalVersionValid is set. 2nd physical structure version number. This field, along with EeplSSCStrPhysicalVersion, uniquely identifies a physical instance of the structure. Valid only if EeplSSCStrPhysicalVersion2Valid is set. |
| <div> <div>Comment</div> <div> <p>Event Constants: constants defining values of EeplEvent See prolog NOTES for event type and identification description.</p> <p>Connection Event Structure Event Rebuild Event</p> </div> </div> | | | | | |
| End of Comment | | | | | |
| 68 | (44) | X'1' | 0 | EEPLEXISTINGCONNECTION | "1" Connection Event: A new connector is learning about an existing connection. See EeplExistingConnFlags. |
| 68 | (44) | X'2' | 0 | EEPLNEWCONNECTION | "2" Connection Event: Existing connector receives an event about a new connection. |
| 68 | (44) | X'3' | 0 | EEPLDISCFAILCONNECTION | "3" Connection Event: A connection has ended (abnormally because of end of task, end of memory, end of system, disconnect with REASON=FAILURE, or normally with a disconnect). See EeplFailedConnFlags. |
| 68 | (44) | X'4' | 0 | EEPLLOSSCONN | "4" Connection Event: The subject of this event lost connectivity to the structure. |
| 68 | (44) | X'5' | 0 | EEPLSTRFAILURE | "5" Structure Event: Structure failure occurred. |
| 68 | (44) | X'6' | 0 | EEPLREBUILDQUIESCE | "6" Structure Event: Event is a rebuild event. A rebuild has been initiated against this structure. Requires an event exit response via IXLEERSP. |
| 68 | (44) | X'7' | 0 | EEPLREBUILDCONNECT | "7" Structure Event: Event is a rebuild event. Rebuild Quiesce has been completed by each connector. Each connector should issue IXLCONN REBUILD. |
| 68 | (44) | X'8' | 0 | EEPLREBUILDEXISTINGCONNECTION | "8" Connection Event: Event is a rebuild event. A new connector is learning about an existing connection already connected to the new rebuild structure. See EeplExistingConnFlags. |
| 68 | (44) | X'9' | 0 | EEPLREBUILDNEWCONNECTION | "9" Connection Event: Event is a rebuild event. Existing connector to the new rebuild structure receives an event about a new connection. |
| 68 | (44) | X'A' | 0 | EEPLREBUILDCONNECTFAILURE | "10" Connection Event: Event is a rebuild event. A rebuild connection terminated before the IXLCONN REBUILD request completed. |
| 68 | (44) | X'B' | 0 | EEPLREBUILDCONNECTSCOMPLETE | "11" Structure Event: Event is a rebuild event. All connectors have attempted to connect to the new structure allocated for rebuild. |
| 68 | (44) | X'C' | 0 | EEPLREBUILDCLEANUP | "12" Structure Event: Event is a rebuild event. All connectors have completed rebuild processing. Cleanup processing remains. Requires an event exit response via IXLEERSP. |
| 68 | (44) | X'D' | 0 | EEPLREBUILDPROCESSCOMPLETE | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|--------------------------------|--|
| Dec | Hex | | | | |
| 68 | (44) | X'E' | 0 | EEPLREBUILDSTOP | "13" Structure Event: Event is a rebuild event. Rebuild processing is complete. Resume normal use of the structure. |
| 68 | (44) | X'F' | 0 | EEPLREBUILDSTOPPROCESSCOMPLETE | "14" Structure Event: Event is a rebuild event. Stop rebuild processing Requires an event exit response via IXLEERSP. |
| 68 | (44) | X'10' | 0 | EEPLUSERSYNCPPOINT | "15" Structure Event: Event is a rebuild event. Stop rebuild processing complete. |
| 68 | (44) | X'11' | 0 | EEPLVOLATILITYSTATECHANGE | "16" Structure Event: New user sync point defined and/or a user sync point is complete. |
| 68 | (44) | X'12' | 0 | EEPLXESRECOMMENDATION | "17" Structure Event: The volatility state of the structure has changed. |
| 68 | (44) | X'13' | 0 | EEPLALTERBEGIN | "18" Connection Event: XES recommended action based on policy data. |
| 68 | (44) | X'14' | 0 | EEPLALTEREND | "19" Structure Event: Structure alter begin. |
| 68 | (44) | X'15' | 0 | EEPLREBILDDUPLEXESTABLISHED | "20" Structure Event: Structure alter end. |
| 68 | (44) | X'16' | 0 | EEPLREBUILDSWITCH | "21" Structure Event: Event is a rebuild event. Duplexing has been established by each connector. Each connector may begin normal duplexed structure operations. This event is valid only for a duplexing rebuild. |
| 68 | (44) | X'17' | 0 | EEPLLOSSCONNPCTNOTIFY | "22" Structure Event: Event is a rebuild event. A duplexing rebuild stop has been requested, to switch to simplex mode using only the new structure. Each connector should prepare to switch and then confirm via IXLREBLD REQUEST=DUPLEXCOMPLETE. This event is valid only for a duplexing rebuild. |
| 68 | (44) | X'18' | 0 | EEPLSTRTEMPORARILYUNAVAILABLE | "23" Connection Event: Lossconn Percentage Notification event. |
| 68 | (44) | X'19' | 0 | EEPLSTRAVAILABLE | "24" Structure Event: A system-managed process has been initiated for the structure. Access to the structure will be prevented until the EeplStrAvailable event is presented. The event can be responded to either implicitly or via IXLEERSP. |
| 68 | (44) | X'1A' | 0 | EEPLSTRSTATECHANGE | "25" Structure Event: A system-managed process has finished. |
| 68 | (44) | X'1A' | 0 | EEPLMAXEVENT | "26" Structure Event: The characteristics of the structure or the coupling facility in which it resides may have changed. |

Comment

Rebuild Start and Stop Reason Constants

Provided only on rebuild events (see prolog for list)

NOTE: Constant names begin "EeplStartRsn" for start reasons

Constant names begin "EeplStopRsn" for stop reasons

End of Comment

| | | | | | |
|----|------|------|---|-----------------------|---|
| 68 | (44) | X'1' | 0 | EEPLSTARTRSNLOSSCONN | "1" The rebuild was initiated because connector(s) lost connectivity to the facility containing the structure. |
| 68 | (44) | X'2' | 0 | EEPLSTARTRSNSTRFAIL | "2" The rebuild was initiated because the structure failed. Structure failure also occurs if the facility containing the structure fails. |
| 68 | (44) | X'3' | 0 | EEPLSTARTRSNCONNECTOR | |

IXLYEEPL Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|-------------------------------------|------|------------|-----|-----------------------------|---|
| Dec | Hex | | | | |
| 68 | (44) | X'3' | 0 | EEPLSTOPRSNCONNECTOR | "3" The structure rebuild process was initiated for an application specific reason. The application may identify its reason using the EeplStartRsnConnectorCode field. |
| 68 | (44) | X'4' | 0 | EEPLSTARTRSNOPERATOR | "3" The structure rebuild process was stopped for an application specific reason. The application may identify its reason using the EeplStopRsnConnectorCode field. |
| 68 | (44) | X'4' | 0 | EEPLSTOPRSNOPERATOR | "4" The structure rebuild process was initiated by the operator. |
| 68 | (44) | X'5' | 0 | EEPLSTOPRSNLOSSCONNNEW | "4" The structure rebuild process was stopped by the operator. |
| 68 | (44) | X'5' | 0 | EEPLSTARTRSNPOLICY | "5" The structure rebuild process was stopped because connector(s) lost connectivity to the coupling facility containing the new/secondary instance allocated for the process. |
| 68 | (44) | X'6' | 0 | EEPLSTOPRSNLOSSCONNOLD | "5" The duplexing rebuild was initiated by MVS in response to CFRM policy specification (DUPLEX(ENABLED)). |
| 68 | (44) | X'7' | 0 | EEPLSTOPRSNSTRFAILNEW | "6" The structure rebuild process was stopped because connector(s) lost connectivity to the coupling facility containing the only/old/primary instance. |
| 68 | (44) | X'8' | 0 | EEPLSTOPRSNSTRFAILOLD | "7" The structure rebuild process was stopped because the new/secondary instance allocated for the process failed. This reason is only set by MVS. MVS initiates stop processing when the new/secondary instance fails. |
| 68 | (44) | X'9' | 0 | EEPLSTOPRSNSTRINSUFFCONN | "8" The structure rebuild process was stopped because the only/old/primary instance failed. |
| 68 | (44) | X'A' | 0 | EEPLSTOPRSNSTRNOBETTERCONN | "9" The structure rebuild process was stopped because the new/secondary instance does not provide connectivity which is better than or equivalent to the old/primary instance. |
| 68 | (44) | X'B' | 0 | EEPLSTOPRSNPOLICY | "10" The rebuild was stopped because the new/secondary instance does not provide better connectivity than the old/primary instance for this LossConn structure rebuild. |
| 68 | (44) | X'C' | 0 | EEPLSTOPRSNLOSSCONN | "11" The duplexing rebuild was stopped by MVS in response to CFRM policy specification (DUPLEX(DISABLED)). |
| 68 | (44) | X'D' | 0 | EEPLSTOPRSNSTRFAILURE | "12" The duplexing rebuild was stopped because connector(s) lost connectivity to one of the instances of the structure. |
| 68 | (44) | X'E' | 0 | EEPLSTOPRSNINSUFFCONNCHGCON | "13" The duplexing rebuild was stopped because one of the instances of the structure failed. |
| 68 | (44) | X'F' | 0 | EEPLSTOPRSNPOPCFNOTSUITABLE | "14" The duplexing rebuild was stopped because of insufficient connectivity due to a change in the set of connectors to the structure. |
| | | | | | Comment |
| Subject Information Level Constants | | | | | |
| | | | | | End of Comment |
| 68 | (44) | X'1' | 0 | EEPLSUBJINFOLEVEL1 | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---|------|------------|-----|--------------------------------|--|
| Dec | Hex | | | | |
| | | | | | "1" The information presented for the connection is "level 1" information. Fields only filled in for "level 1" are indicated in the field description. |
| Comment | | | | | |
| Process Constants: constants defining values of EeplSTRavailabilityProcess EeplSSCProcessType | | | | | |
| End of Comment | | | | | |
| 68 | (44) | X'1' | 0 | EEPLSYSMANAGEDREBUILD | "1" System-managed Process: the event is associated with a system-managed rebuild. |
| 68 | (44) | X'2' | 0 | EEPLSYSMANAGEDDUPLEXINGREBUILD | "2" System-managed Process: the event is associated with a system-managed duplexing rebuild. |
| 68 | (44) | X'4C' | 0 | EEPLSTRSTATECHANGEINFO_LEN | ** -EEPLSTRSTATECHANGEINFO" |

IXLYEEPL Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|--|------------|-----------|----------------------------|------------|-----------|
| EEPL | 0 | | | 0 | 1 |
| EEPL_LEN | A8 | 100 | EEPLALTERENDDUPREBLDOLD | 0 | 2 |
| EEPLALTERBEGIN | 44 | 13 | EEPLALTERENDELEM COUNT | 10 | |
| EEPLALTERBEGIN DUPREBLDNEW | 0 | 1 | EEPLALTERENDEMCCOUNT | 30 | |
| EEPLALTERBEGIN DUPREBLDOLD | 0 | 2 | EEPLALTERENDEM CSTG | 0 | 20 |
| EEPLALTERBEGIN EMCSTG | 0 | 20 | EEPLALTERENDENTRYCOUNT | C | |
| EEPLALTERBEGIN FLAGS | 0 | | EEPLALTEREND FLAGS | 0 | |
| EEPLALTERBEGIN INFO | 0 | | EEPLALTEREND INFO | 0 | |
| EEPLALTERBEGIN INFO_LEN | 12 | 14 | EEPLALTEREND INFO_LEN | 44 | 58 |
| EEPLALTERBEGIN RATIO | 0 | 40 | EEPLALTEREND LOSSCONN | 3 | 40 |
| EEPLALTERBEGIN SIZE | 0 | 80 | EEPLALTEREND MINSTRSIZE | 4 | |
| EEPLALTERCOMPOSITE | C | | EEPLALTEREND RATIO | 0 | 40 |
| EEPLALTERCOMPOSITE FLAGS | C | | EEPLALTERENDREBLD | 2 | 20 |
| EEPLALTERELEMENT RATIO | A | | EEPLALTERENDREBLDDEALLOC | 3 | 8 |
| EEPLALTEREMCSTGPCT | 12 | | EEPLALTERENDRECORDELEMENTS | C | |
| EEPLALTEREND | 44 | 14 | EEPLALTERENDREQ EXCEPTION | 3 | 10 |
| EEPLALTEREND ADDITIONAL CURRENT VALUES | 30 | | EEPLALTEREND SIZE | 0 | 80 |
| EEPLALTEREND ALL | 2 | 80 | EEPLALTEREND SOME | 2 | 40 |
| EEPLALTEREND CURRENT SIZE | 8 | | EEPLALTEREND STATE FLAGS | 2 | |
| EEPLALTEREND CURRENT VALUES | 4 | | EEPLALTEREND STATUS FLAG1 | 2 | |
| EEPLALTEREND DIRCOUNT | C | | EEPLALTEREND STATUS FLAG2 | | |
| EEPLALTEREND DUPREBLDNEW | | | | | |

IXLYEEPL Cross Reference

| Name | Hex Offset | Hex Value |
|----------------------------------|---------------|--------------|
| | 3 | |
| EEPLALTERENDSTOPBEFORESTART | 3 | 20 |
| EEPLALTERENDSTRFAIL | 3 | 80 |
| EEPLALTERENDTARGETDIRCOUNT | 18 | |
| EEPLALTERENDTARGETTELEMCOUNT | 1C | |
| EEPLALTERENDTARGETEMCCOUNT | 20 | |
| EEPLALTERENDTARGETENTRYCOUNT | 18 | |
| EEPLALTERENDTARGETRECORDELEMENTS | 18 | |
| EEPLALTERENDTARGETSIZE | 14 | |
| EEPLALTERENDTARGETVALUES | 14 | |
| EEPLALTERENTRYRATIO | 8 | |
| EEPLALTERMINELEMENT | F | |
| EEPLALTERMINEMC | 10 | |
| EEPLALTERMINENTRY | E | |
| EEPLALTERRATIO | C | 80 |
| EEPLALTERSIZE | 4 | |
| EEPLCART | 24 | |
| EEPLCOMPLETEDUSERCOMPCODE | 48 | |
| EEPLCOMPLETEDUSEREVENT | 0 | |
| EEPLCOMPLETEDUSERSTATE | 8 | |
| EEPLCONDATA | 10 | |
| EEPLCONNINFOSUBJECT | 54 | |
| EEPLCONNINFOSUBJECT2 | 98 | |
| EEPLCONNINFOTARGET | 0 | |
| EEPLCONNSACTIVE | 0 | |
| EEPLCONNSACTIVETOTAL | 40 | |
| EEPLCONNSSUCCESSFUL | 20 | |
| EEPLCONNSSUCCESSFULTOTAL | 44 | |
| EEPLCONSID | 2C | |
| EEPLCONTOKEN | 0 | |
| EEPLDISCFAILCONNECTION | 44 | 3 |
| EEPLDISCFROMNEWSTRALSO | 85 | 20 |
| EEPLDISCWITHLOCKRESOURCES | 85 | 40 |
| EEPLDUMMYLASTEVENT | 86 | 40 |
| EEPLEVENT | 1A | |
| EEPLEVENTSEQ | 1C | |

| Name | Hex Offset | Hex Value |
|-------------------------------------|---------------|--------------|
| EEPLEVENTSPECIFICINFO | A8 | |
| EEPLEXISTINGCONNECTION | 44 | 1 |
| EEPLEXISTINGCONNFLAGS | 86 | |
| EEPLFAILEDCONNFLAGS | 85 | |
| EEPLFPATIXLCONN | 86 | 20 |
| EEPLGENERALINFO | 18 | |
| EEPLLOSSCONN | 44 | 4 |
| EEPLLOSSCONNDELAYACTION | 0 | 40 |
| EEPLLOSSCONNINFO | 0 | |
| EEPLLOSSCONNINFO_LEN | 1 | 1 |
| EEPLLOSSCONNPNCTNOTIFY | 44 | 17 |
| EEPLLOSSCONNPNCTNOTIFYINFO | 0 | |
| EEPLLOSSCONNPNCTNOTIFYINFO_LEN | 1 | 2 |
| EEPLLOSSCONNPNCTNOTIFYPCTLOSSCONN | 1 | |
| EEPLLOSSCONNSTRFLAGS | 0 | |
| EEPLLOSSCONNSTRNEW | 0 | 80 |
| EEPLMAXEVENT | 44 | 1A |
| EEPLNEWCONNECTION | 44 | 2 |
| EEPLNEXTUSEREVENT | 4 | |
| EEPLNEXTUSERSTATE | 28 | |
| EEPLNOTCONNSTR | 86 | 10 |
| EEPLOPERATORINFO | 24 | |
| EEPLREBUILDCLEANUP | 44 | C |
| EEPLREBUILDCONNECT | 44 | 7 |
| EEPLREBUILDCONNECTFAILURE | 44 | A |
| EEPLREBUILDCONNECTSCOMPLETE | 44 | B |
| EEPLREBUILDCONNECTSCOMPLETEINFO | 0 | |
| EEPLREBUILDCONNECTSCOMPLETEINFO_LEN | 44 | 48 |
| EEPLREBUILDDUPLEXESTABLISHED | 44 | 15 |
| EEPLREBUILDEXISTINGCONNECTION | 44 | 8 |
| EEPLREBUILDNEWCONNECTION | 44 | 9 |
| EEPLREBUILDPCTLOSSCONN | 4B | |
| EEPLREBUILDPROCESSCOMPLETE | 44 | D |
| EEPLREBUILDQUIESCE | | |

| Name | Hex Offset | Hex Value |
|---------------------------------|------------|-----------|
| EEPLREBUILDQUIESCEINFO | 44 | 6 |
| EEPLREBUILDQUIESCEINFO_LEN | 0 | |
| EEPLREBUILDQUIESCEINFOFLAGS | 4 | 4 |
| EEPLREBUILDQUIESCELCCONT | 0 | 80 |
| EEPLREBUILDQUIESCELOCOTHER | 0 | 40 |
| EEPLREBUILDSTARTREASON | 49 | |
| EEPLREBUILDSTOP | 44 | E |
| EEPLREBUILDSTOPPROCESSCOMPLETE | 44 | F |
| EEPLREBUILDSTOPREASON | 4A | |
| EEPLREBUILDSWITCH | 44 | 16 |
| EEPLRETCODE | 20 | |
| EEPLSSCAUTOVERSION | 0 | |
| EEPLSSCCFLEVEL | 10 | |
| EEPLSSCCFLEVELVALID | 9 | 80 |
| EEPLSSCCFNAME | 14 | |
| EEPLSSCCFNAMEVALID | 9 | 40 |
| EEPLSSCCHARACTERISTICFLAGS | C | |
| EEPLSSCCHARACTERISTICS | C | |
| EEPLSSCDUPLEXSTATEVALID | 9 | 2 |
| EEPLSSCFailureISOLATE | 1C | |
| EEPLSSCFailureISOLATEVALID | 9 | 8 |
| EEPLSSCPROCESSTYPE | 8 | |
| EEPLSSCSTRPHYSICALVERSION | 3C | |
| EEPLSSCSTRPHYSICALVERSIONVALID | 9 | 10 |
| EEPLSSCSTRPHYSICALVERSION2 | 44 | |
| EEPLSSCSTRPHYSICALVERSION2VALID | 9 | 4 |
| EEPLSSCSYSMGDDUPLEXED | C | 40 |
| EEPLSSCSYSMGDDUPLEXEDFAILISOL | C | 20 |
| EEPLSSCVALIDITYFLAGS | 9 | |
| EEPLSSCVOLATILE | C | 80 |
| EEPLSSCVOLATILEVALID | 9 | 20 |
| EEPLSTARTRSNCONNECTOR | 44 | 3 |
| EEPLSTARTRSNCONNECTORCODE | | |

| Name | Hex Offset | Hex Value |
|--------------------------------|------------|-----------|
| EEPLSTARTRSNLOSSCONN | 4C | |
| EEPLSTARTRSNOPERATOR | 44 | 1 |
| EEPLSTARTRSNPOLICY | 44 | 4 |
| EEPLSTARTRSNSTRFAIL | 44 | 5 |
| EEPLSTATEACTIVE | 44 | 2 |
| EEPLSTOPRSNCONNECTOR | 86 | 80 |
| EEPLSTOPRSNCONNECTORCODE | 44 | 3 |
| EEPLSTOPRSNINSUFFCONNHGCON | 50 | |
| EEPLSTOPRSNLOSSCONN | 44 | E |
| EEPLSTOPRSNLOSSCONNNEW | 44 | C |
| EEPLSTOPRSNLOSSCONNOLD | 44 | 5 |
| EEPLSTOPRSNOPERATOR | 44 | 6 |
| EEPLSTOPRSNPOLICY | 44 | 4 |
| EEPLSTOPRSNPOPCFNOTSUITABLE | 44 | B |
| EEPLSTOPRSNSTRFAILNEW | 44 | F |
| EEPLSTOPRSNSTRFAILOLD | 44 | 7 |
| EEPLSTOPRSNSTRFAILURE | 44 | 8 |
| EEPLSTOPRSNSTRINSUFFCONN | 44 | D |
| EEPLSTOPRSNSTRNOBETTERCONN | 44 | 9 |
| EEPLSTRAVAILABILITYAUTOVERSION | 44 | A |
| EEPLSTRAVAILABILITYINFO | 0 | |
| EEPLSTRAVAILABILITYINFO_LEN | 0 | |
| EEPLSTRAVAILABILITYPROCESS | 8 | 9 |
| EEPLSTRAVAILABLE | 8 | |
| EEPLSTRFAILDUPLEXOUTOFSYNCH | 44 | 19 |
| EEPLSTRFAILURE | 48 | 4 |
| EEPLSTRNAME | 44 | 5 |
| EEPLSTRPHYSICALVERSION | 30 | |
| EEPLSTRSTATE | 40 | |
| EEPLSTRSTATECHANGE | 48 | |
| EEPLSTRSTATECHANGEINFO | 44 | 1A |
| EEPLSTRSTATECHANGEINFO_LEN | 0 | |
| EEPLSTRSTATEFPERSISTENTCONNS | 44 | 4C |
| | 48 | 20 |

IXLYEEPL Cross Reference

| Name | Hex Offset | Hex Value |
|-----------------------------------|---------------|--------------|
| EEPLSTRSTATEPROCESSMETHOD | 48 | 1 |
| EEPLSTRSTATEREBUILD | 48 | 80 |
| EEPLSTRSTATEREBUILDDEX | 48 | 8 |
| EEPLSTRSTATEREBUILDSTOP | 48 | 40 |
| EEPLSTRSTATESTRVERSIONFLAG | 48 | 10 |
| EEPLSTRTEMPORARILYUNAVAILABLE | 44 | 18 |
| EEPLSTRUCTUREVERSION | 40 | |
| EEPLSUBJCFLEVEL | 98 | |
| EEPLSUBJCONID | 57 | |
| EEPLSUBJCONLEVEL | 88 | |
| EEPLSUBJCONNAME | 68 | |
| EEPLSUBJCONTOKEN | 58 | |
| EEPLSUBJCONVERSION | 78 | |
| EEPLSUBJDISCDATA | 90 | |
| EEPLSUBJDISPOSITIONKEEP | 84 | 80 |
| EEPLSUBJFAILISOL | 84 | 40 |
| EEPLSUBJFLAGS | 84 | |
| EEPLSUBJINFOLEVEL | 9C | |
| EEPLSUBJINFOLEVEL1 | 44 | 1 |
| EEPLSUBJSYSNAME | 7C | |
| EEPLSYSMANAGEDDDUPLEXINGREBUILD | 44 | 2 |
| EEPLSYSMANAGEDREBUILD | 44 | 1 |
| EEPLTERMINATEDABNORMAL | 85 | 80 |
| EEPLUSERSYNCPOINT | 44 | 10 |
| EEPLUSERSYNCPOINTINFO | 0 | |
| EEPLUSERSYNCPOINTINFO_LEN | 48 | 4C |
| EEPLVOLATILE | 0 | 40 |
| EEPLVOLATILENEW | 0 | 80 |
| EEPLVOLATILITYSTATECHANGE | 44 | 11 |
| EEPLVOLATILITYSTATECHANGEFLAGS | 0 | |
| EEPLVOLATILITYSTATECHANGEINFO | 0 | |
| EEPLVOLATILITYSTATECHANGEINFO_LEN | 1 | 1 |
| EEPLXESRECOMMENDACTION | 44 | 12 |

| Name | Hex Offset | Hex Value |
|-----------------------------------|---------------|--------------|
| EEPLXESRECOMMENDACTIONDISCONNECT | 0 | 40 |
| EEPLXESRECOMMENDACTIONFLAGS | 0 | |
| EEPLXESRECOMMENDACTIONINFO | 0 | |
| EEPLXESRECOMMENDACTIONINFO_LEN | 1 | 2 |
| EEPLXESRECOMMENDACTIONPCTLOSSCONN | 1 | |
| EEPLXESRECOMMENDACTIONPOLICY | 0 | 80 |

IXLYEMC Programming Interface information

Programming Interface information

IXLYEMC

End of Programming Interface information

IXLYEMC Heading Information

Common Name: Event Monitor Controls
Macro ID: IXLYEMC
DSECT Name: EMC
Owning Component: Cross System Extended Services (SCIXL)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: User specified
 Key: User specified
 Residency: User specified
Size: 64 bytes
 EMC -- X'0040' bytes
Created by: Storage area created by IXLLIST/IXLLSTC invoker.
Pointed to by: BUFFER or BUFLIST
Serialization: See BUFFER/BUFLIST parameter requirements on the IXLLIST/IXLLSTC interface description.
Function: Maps the information returned by an IXLLIST/IXLLSTC dequeue event queue request.
 The output area(s) indicated by BUFFER or BUFLIST on an IXLLIST/IXLLSTC REQUEST=DEQ_EVENTQ are filled with zero or more entries. Each entry is mapped by EMC and contains the Event Monitor Controls that were dequeued from the user's event queue within the structure. Each such EMC identifies a monitored sublist that was nonempty when the event queue was read.

IXLYEMC Map

| Offsets | | | | | |
|---------|------|------------|-----|------------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | EMC | Event Monitor Controls |
| 0 | (0) | CHARACTER | 1 | | Reserved (zero). |
| 1 | (1) | SIGNED | 1 | EMCCONID | Connection Identifier. |
| 2 | (2) | CHARACTER | 5 | | Reserved (zero). |
| 7 | (7) | BITSTRING | 1 | EMC_FLAGS (0) | |
| | |1.. | | EMC_NOTIFYONEVERY | "X'04" 1 ==> indicates that an EMC will be queued to the event queue for every list entry added to the sublist (CFLEVEL >= 9) |
| | | | | | 0 ==> indicates that an EMC will be queued to the event queue for only the first list entry added to the sublist |
| | |1. | | EMC_KEYTYPE | "X'02" 1 ==> indicates that the monitored sublist is for the secondary key specified by field EmcSecondaryKey (CFLEVEL >= 9) 0 ==> indicates that the monitored sublist is for the entry key specified by field EmcListEntryKey |
| 8 | (8) | SIGNED | 4 | EMCLISTNUM | List number of the list header containing the sublist. |
| 12 | (C) | CHARACTER | 4 | | Reserved, specify as zero |
| 16 | (10) | CHARACTER | 32 | EMCLISTENTRYKEYS (0) | Entry Key or Secondary key indicated by Emc_KeyType |
| 16 | (10) | CHARACTER | 32 | EMCLISTENTRYKEYBUF (0) | |
| 16 | (10) | CHARACTER | 16 | | KeyType = B'0' |
| 32 | (20) | CHARACTER | 16 | EMCLISTENTRYKEY | Reserved, specify as zero |
| | | | | | KeyType = B'0', List Entry Key of sublist with which the EMC is associated. |
| 16 | (10) | CHARACTER | 32 | EMCSECONDARYKEY | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|----------------|---|
| Dec | Hex | | | | |
| 48 | (30) | CHARACTER | 16 | EMCUNC | KeyType = B'1', Secondary List Entry Key of sublist with which the EMC is associated.(CFLEVEL >= 9) User Notification Controls. The 16 bytes of user data defined when the user registered interest in the monitoring of this sublist. |
| 64 | (40) | CHARACTER | 1 | EMCLISTEND (0) | End Event Monitor Controls |
| 64 | (40) | X'40' | 0 | EMC_LEN | **-EMC" |

IXLYEMC Cross Reference

| Name | Hex Offset | Hex Value |
|--------------------|------------|-----------|
| EMC | 0 | |
| EMC_FLAGS | 7 | |
| EMC_KEYTYPE | 7 | 2 |
| EMC_LEN | 40 | 40 |
| EMC_NOTIFYONEVERY | 7 | 4 |
| EMCCONID | 1 | |
| EMCLISTEND | 40 | |
| EMCLISTENTRYKEY | 20 | |
| EMCLISTENTRYKEYBUF | 10 | |
| EMCLISTENTRYKEYS | 10 | |
| EMCLISTNUM | 8 | |
| EMCSECONDARYKEY | 10 | |
| EMCUNC | 30 | |

IXLYLAA Programming Interface information

Programming Interface information

IXLYLAA

End of Programming Interface information

IXLYLAA Heading Information

| | |
|---------------------|--|
| Common Name: | List Answer Area |
| Macro ID: | IXLYLAA |
| DSECT Name: | LAA |
| Owning Component: | Cross System Extended Services (SCIXL) |
| Eye-Catcher ID: | NONE |
| Storage Attributes: | Subpool: User supplied |
| | Key: User supplied |
| | Residency: User supplied |
| Size: | 256 bytes |
| | LAA -- X'0100' bytes |
| Created by: | Invoker of IXLLIST/IXLLSTC/IXLLSTE/IXLLSTM service. |
| Pointed to by: | ANSAREA parameter on IXLLIST/IXLLSTC/IXLLSTE/IXLLSTM |
| Serialization: | NONE |
| Function: | Maps the answer area output from IXLLIST/IXLLSTC/IXLLSTE/IXLLSTM requests |

IXLYLAA Map

| Offsets | | | | | |
|---------|------|------------|-----|---------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | LAA | List answer area |
| 0 | (0) | CHARACTER | 12 | LAAHEADER (0) | List Answer area header |
| 0 | (0) | SIGNED | 4 | LAALEVEL | Macro level of this version of the IXLYLAA macro |
| 4 | (4) | SIGNED | 4 | LAAOFFSET | Offset from the beginning of the structure (Laa) to the answer area data (LaaData) |
| 8 | (8) | SIGNED | 4 | LAALENGTH | Length of the answer area data |
| 12 | (C) | CHARACTER | 244 | LAADATA (0) | List Answer area data |
| 12 | (C) | SIGNED | 4 | LAARETCODE | Return code. Values are defined in IXLYCON. |
| 16 | (10) | SIGNED | 4 | LAARSNCODE | Reason code. Values are defined in IXLYCON. |

Comment

LaaOutData contains information returned by the IXLLIST request. Different information is returned for different requests and for different LaaRetcode/LaaRsncode combinations. Use the submapping that is appropriate for the type of request that was issued. Take note of the circumstances under which the data is valid for use.

End of Comment

| | | | | | |
|----|------|-----------|-----|----------------|--|
| 20 | (14) | CHARACTER | 216 | LAAOUTDATA (0) | Output data that is unique to the IXLLIST request that was made. |
|----|------|-----------|-----|----------------|--|

Comment

LaaOutData: Monitor Event Queue ACTION=START (CFLEVEL >= 3)

End of Comment

| | | | | | |
|-----|------|-----------|-----|---------------|---|
| 20 | (14) | CHARACTER | 140 | LAAMNEQ (0) | MONITOR_EVENTQ ACTION=START |
| 20 | (14) | CHARACTER | 132 | | Reserved. |
| 152 | (98) | CHARACTER | 3 | | Reserved. |
| 155 | (9B) | BITSTRING | 1 | LAAMNEQ_FLAGS | |
| | |1 | | (0) | LAAMNEQ_EVENTQUEUED |
| | | | | | "X'01'" ON if the user's event queue was not empty. Returned when the request completes successfully. |

| Offsets | | | | | |
|---|------|------------|-----|---------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 156 | (9C) | SIGNED | 4 | LAAMNEQ_EVENTCNT | Count of number of events (Event Monitor Control objects) queued to user's event queue when monitoring was established. Returned when the request completes successfully. |
| Comment | | | | | |
| ----- | | | | | |
| LaaOutData: Monitor List ACTION=START (CFLEVEL >= 0) | | | | | |
| ----- | | | | | |
| End of Comment | | | | | |
| 20 | (14) | CHARACTER | 140 | LAAMNL (0) | MONITOR_LIST ACTION=START |
| 20 | (14) | CHARACTER | 132 | | Reserved. |
| 152 | (98) | CHARACTER | 3 | | Reserved. |
| 155 | (9B) | BITSTRING | 1 | LAAMNL_FLAGS | |
| | |1 | | (0) | |
| | | | | LAAMNL_ENTRYQUEUED | "X'01" ON if the list was not empty. Returned if the request completes successfully and the structure is allocated in a level 3 (or greater) coupling facility. |
| 156 | (9C) | SIGNED | 4 | LAAMNL_LISTCNT | Count of in-use entries or elements residing on the list when monitoring was established. Returned when the request completes successfully. |
| Comment | | | | | |
| ----- | | | | | |
| LaaOutData: Monitor Sublist ACTION=START (CFLEVEL >= 3) | | | | | |
| ----- | | | | | |
| End of Comment | | | | | |
| 20 | (14) | CHARACTER | 144 | LAAMNSL (0) | MONITOR_SUBLIST ACTION=START |
| 20 | (14) | CHARACTER | 132 | | Reserved. |
| 152 | (98) | CHARACTER | 3 | | Reserved. |
| 155 | (9B) | BITSTRING | 1 | LAAMNSL_FLAGS | |
| | |1 | | (0) | |
| | | | | LAAMNSL_ENTRYQUEUED | "X'01" ON if the sublist was not empty. Returned when the request completes successfully. |
| 156 | (9C) | SIGNED | 4 | LAAMNSL_EMCCNT | Count of Event Monitor Control (EMC) objects in use by the structure when monitoring was established. Returned when the request completes successfully, or when the request fails because the structure has no more EMCs (rsn=IxIRsnCodeStrFull) |
| 160 | (A0) | SIGNED | 4 | LAAMNSL_MAXEMCCNT | Maximum number of EMCs for the structure. Returned when the request completes successfully, or when the request fails because the structure has no more EMCs (rsn=IxIRsnCodeStrFull) |
| Comment | | | | | |
| ----- | | | | | |
| LaaOutData: Monitor Sublists (CFLEVEL >= 3) | | | | | |
| ----- | | | | | |
| End of Comment | | | | | |
| 20 | (14) | CHARACTER | 144 | LAAMNSLS (0) | MONITOR_SUBLISTS |
| 20 | (14) | CHARACTER | 132 | | Reserved. |
| 152 | (98) | CHARACTER | 2 | | Reserved. |
| 154 | (9A) | SIGNED | 2 | LAAMNSLS_FAILINDEX | |

IXLYLAA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|--|------|------------|-----|----------------------|--|
| Dec | Hex | | | | |
| | | | | | Index of first unprocessed input MSRI (mapped by IXLYMSRI) entry when the request completes prematurely. Premature completion can occur when the request times out (rsn=IxIRsnCodeTimeout), when the structure has no more EMCs left (rsn=IxIRsnCodeStrFull), or when an invalid list number is specified in an MSRI (rsn=IxIRsnCodeBadListNumber). |
| 156 | (9C) | SIGNED | 4 | LAAMNSLS_EMCCNT | Count of Event Monitor Control (EMC) objects in use by the structure when MONITOR_SUBLISTS completed. Returned when the request completes successfully or when it completes prematurely. |
| 160 | (A0) | SIGNED | 4 | LAAMNSLS_MAXEMCCNT | Maximum number of EMCs for the structure. Returned when the request completes successfully or when it completes prematurely. |
| Comment | | | | | |
| ----- | | | | | |
| LaaOutData: Dequeue Event Queue (CFLEVEL >= 3) | | | | | |
| ----- | | | | | |
| End of Comment | | | | | |
| 20 | (14) | CHARACTER | 8 | LAADEQ (0) | DEQ_EVENTQ |
| 20 | (14) | SIGNED | 4 | LAADEQ_EMCCQUEUEDCNT | Number of Event Monitor Control (EMC) objects still queued to the event queue. Returned when the request completes successfully or terminates with EMCs still on the event queue (rsn=IxIRsnCodeTimeout). |
| 24 | (18) | SIGNED | 4 | LAADEQ_NUMEMCREAD | Number of EMC objects that were dequeued and read. The storage area identified by BUFFER or BUFLIST on the IXLLIST invocation contains the EMCs, which are numbered from one to this count. The EMCs in the storage area are mapped by IXLYEMC. Returned when the request completes successfully or terminates with EMCs still on the event queue (rsn=IxIRsnCodeTimeout). |
| Comment | | | | | |
| ----- | | | | | |
| LaaOutData: Read Event Monitor Controls (CFLEVEL >= 3) | | | | | |
| ----- | | | | | |
| End of Comment | | | | | |
| 20 | (14) | CHARACTER | 72 | LAAREMC (0) | READ_EMCONTROLS Indicated data is returned only when the request completes successfully. |
| 20 | (14) | CHARACTER | 2 | | Reserved. |
| 22 | (16) | SIGNED | 1 | LAAREMC_CONID | Connection identifier of the connector associated with the EMC. |
| 23 | (17) | BITSTRING | 1 | LAAREMC_FLAGS | |
| | |1.. | | (0) | |
| | | | | LAAREMC_NOTIFONEVERY | "X'04" ON ==> indicates that an EMC will be queued to the associated event queue whenever a list entry is added to the sublist. OFF ==> indicates that an EMC will be queued to the associated event queue whenever the first list entry is added to the sublist. (CFLEVEL >=9) |
| | |1. | | LAAREMC_EMCKEYTYPE | "X'02" ON ==> if EMC is associated with a sublist for a secondary key. LaaREMC_SecondaryKey is valid. OFF ==> if EMC is associated with a sublist for list entry key. LaaREMC_ListEntryKey is valid (CF level >= 9) |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|----------------------|--|
| Dec | Hex | | | | |
| | |1 | | LAAREMC_EMCQUEUED | "X'01" ON if EMC is queued to event queue of connector identified by ConId. |
| 24 | (18) | SIGNED | 4 | LAAREMC_LISTNUM | List number of the list with which EMC is associated. |
| 28 | (1C) | CHARACTER | 16 | LAAREMC_LISTENTRYKEY | List entry key of sublist with which EMC is associated. Valid when LaaREMC_EmcKeyType = OFF. |
| 44 | (2C) | CHARACTER | 16 | LAAREMC_UNC | User notification control data supplied by connector when this EMC was established to monitor the indicated sublist. |
| 60 | (3C) | CHARACTER | 32 | LAAREMC_SECONDARYKEY | Secondary key of sublist with which EMC is associated. Valid when LaaREMC_EmcKeyType = ON. (CFLEVEL >= 9) |

Comment

LaaOutData: Read Event Queue Controls (CFLEVEL >= 3)

End of Comment

| | | | | | |
|----|------|-----------|----|--------------------------|---|
| 20 | (14) | CHARACTER | 16 | LAAREQC (0) | READ_EQCONTROLS Indicated data is returned only when the request completes successfully. |
| 20 | (14) | CHARACTER | 3 | | Reserved (zeros) |
| 23 | (17) | BITSTRING | 1 | LAAREQC_FLAGS | |
| | | 1... | | LAAREQC_DRIVEEXIT | "X'80" ON if XES is to drive the connection list transition exit when the user's event queue changes from empty to non-empty. |
| | | .1.. | | LAAREQC_MONITORINGACTIVE | "X'40" ON if monitoring is active for this event queue |
| | | ..1. | | LAAREQC_EVENTQUEUEUETYPE | "X'20" ON = Queue of EMCs that are associated with a sublists for secondary keys, OFF = Queue of EMCs that are associated with sublists for entry keys.(CFLEVEL >= 9) |
| 24 | (18) | SIGNED | 4 | LAAREQC_VECTORINDEX | Vector index associated with the monitored event queue |
| 28 | (1C) | SIGNED | 4 | LAAREQC_EMCQUEUEDCNT | Number of Event Monitor Control (EMC) objects queued to the event queue. |
| 32 | (20) | SIGNED | 4 | LAAREQC_EVENTTRAN | Approximate number of empty to non-empty event queue transitions that have occurred. |

Comment

LaaOutData: Read_LControls (CFLEVEL >= 0)

End of Comment

| | | | | | |
|----|------|-----------|-----|-----------------|---|
| 20 | (14) | CHARACTER | 216 | LAARLC (0) | READ_LCONTROLS |
| 20 | (14) | CHARACTER | 32 | LAARLCLISTDESC | The user specified description of the list. Returned on successful Read_LControls requests |
| 52 | (34) | CHARACTER | 16 | LAARLCLISTAUTH | List authority. Returned on successful Read_LControls requests |
| 68 | (44) | SIGNED | 4 | LAARLCLISTLIMIT | |
| | | | (0) | | The maximum number of entries or elements which can be placed on the list. Returned on successful Read_LControls requests |

IXLYLAA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-----------------------------|---|
| Dec | Hex | | | | |
| 68 | (44) | SIGNED | 4 | LAALISTLIMIT | The maximum number of entries or elements which can be placed on the list. Returned on successful Read_LControls requests |
| 72 | (48) | SIGNED | 4 | LAARLCLISTTRAN (0) | Approximate number of empty to non-empty transitions for the list. Returned on successful Read_LControls requests. |
| 72 | (48) | SIGNED | 4 | LAALISTTRAN | Approximate number of empty to non-empty transitions for the list. Returned on successful Read_LControls requests. |
| 76 | (4C) | SIGNED | 2 | LAARLCLMICNT (0) | Count of list monitoring information entries (mapped by IXLYLMI) returned. Returned for successful Read_LControls requests. The entries are numbered from 0 to LAALMICNT-1. The first entry (number 0) is not used. The rest of the entries correspond to the connections, e.g. entry 1 corresponds to the connection with ConId=1. |
| 76 | (4C) | SIGNED | 2 | LAALMICNT | Count of list monitoring information entries (mapped by IXLYLMI) returned. Returned for successful Read_LControls requests. The entries are numbered from 0 to LAALMICNT-1. The first entry (number 0) is not used. The rest of the entries correspond to the connections, e.g. entry 1 corresponds to the connection with ConId=1. |
| 78 | (4E) | CHARACTER | 6 | LAARLCLISTKEY | Reserved |
| 84 | (54) | CHARACTER | 16 | | List controls key value. Returned on successful Read_LControls requests. |
| 100 | (64) | CHARACTER | 16 | LAARLCMAXLISTKEY | List controls maximum list key value. Returned on successful Read_LControls requests. |
| 116 | (74) | CHARACTER | 16 | LAARLCKEYRANGESTART | Key value that specifies the lower or starting value of the Key range being monitored. (CFLEVEL >= 9) |
| 132 | (84) | CHARACTER | 16 | LAARLCKEYRANGEEND | Key value that specifies the upper or ending value of the Key range being monitored. (CFLEVEL >= 9) |
| 148 | (94) | CHARACTER | 8 | LAARLCLISTCNT | Reserved |
| 156 | (9C) | SIGNED | 4 | | Count of in-use entries or elements residing on the processed list. Returned for successful Read_LControls requests. |
| 160 | (A0) | SIGNED | 4 | LAARLCLISTEMPTYCOUNT | Count of number of list entries that must remain in the list to suppress a not-empty to empty state change. (CFLEVEL >= 9) |
| 164 | (A4) | SIGNED | 4 | LAARLCLISTNOTEMPTYCOUNT | Count of number of list entries that must be included in the list before an empty-to-not-empty state change will occur. (CFLEVEL >= 9) |
| 168 | (A8) | SIGNED | 4 | LAARLCKEYRANGEEMPTYCOUNT | Count of the number of list entries that must remain in the Key range to suppress a not-empty to empty state change. (CFLEVEL >= 9) |
| 172 | (AC) | SIGNED | 4 | LAARLCKEYRANGENOTEMPTYCOUNT | Count of the number of list entries that must be included in the key range before an empty-to-not-empty state change will occur. (CFLEVEL >= 9) |
| 176 | (B0) | CHARACTER | 12 | LAARLCLISTCURSOR (0) | List cursor. Returned on successful Read_LControls requests. This is a list entry identifier. A value of zero means the list cursor has not been set for the list. |
| 176 | (B0) | CHARACTER | 12 | LAALISTCURSOR | List cursor. Returned on successful Read_LControls requests. This is a list entry identifier. A value of zero means the list cursor has not been set for the list. |
| 188 | (BC) | SIGNED | 1 | LAARLCFLAGS (0) | Flags |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|----------------------------|------|------------|-----|------------------|---|
| Dec | Hex | | | | |
| | | 1... .. | | LAACURSORDIR | "X'80" List cursor direction. 0 -> from head to tail. 1 -> from tail to head. Returned on successful Read_LControls requests. (CFLEVEL >= 1) |
| 189 | (BD) | CHARACTER | 47 | | Reserved |
| ----- | | | | | |
| LaaOutData: Other requests | | | | | |
| ----- | | | | | |
| ----- End of Comment ----- | | | | | |
| 20 | (14) | CHARACTER | 216 | LAAOUTOTHER (0) | Other requests |
| 20 | (14) | CHARACTER | 64 | LAALCTL (0) | List entry controls, mapped by IXLYLCTL. These are returned for READ, WRITE, MOVE, and DELETE whenever the request completes successfully. These are also returned for the following requests for the following failure conditions: READ: because of list number, version number or key comparison failure, or because the buffer is too small to contain the entry being read WRITE: because of list number, version number or key comparison failure, or because the specified entry name or entryID was not unique which prevented the creation of a new entry. The returned controls are for the allocated entry for which the name or ID conflict exists. MOVE: because of list number, version number or key comparison failure, or because the buffer is too small to contain the entry being read, or because the specified entry name or entryID was not unique which prevented the creation of a new entry. The returned controls are for the allocated entry for which the name or ID conflict exists. DELETE: because of a list number, version number or key comparison failure READ_LIST: because of a listnumber comparison failure, or because the buffer is too small to contain the first entry being read or, because the request completed prematurely - the controls are for the first unprocessed entry. READ_MULT: because the buffer is too small to contain the first entry being read MOVE_ENTRYLIST: because of a list number, version number or key comparison failure DELETE_LIST: because of a list number comparison failure or because the request completed prematurely (the controls are for the first unprocessed entry). DELETE_ENTRYLIST: because of a list number, version number of key comparison failure |
| 20 | (14) | CHARACTER | 32 | LAALISTDESC | The user specified description of the list. Returned on successful READ_LCONTROLS requests and on READ, READ_LIST, READ_MULT, WRITE, WRITE_LCONTROLS, MOVE, DELETE, DELETE_MULT, and DELETE_ENTRYLIST requests when the request fails because of an authority mismatch. |
| 52 | (34) | CHARACTER | 16 | LAALISTAUTH | List authority. Returned on successful READ_LCONTROLS requests and on READ, READ_LIST, READ_MULT, WRITE, WRITE_LCONTROLS, MOVE, DELETE, DELETE_MULT, and DELETE_ENTRYLIST requests when the request fails because of an authority mismatch. |
| 68 | (44) | CHARACTER | 16 | | Reserved |
| 84 | (54) | CHARACTER | 64 | LAARLRMLCTLS (0) | List entry controls, mapped by IXLYLCTL. These are returned for READ_LIST and READ_MULT requests specifying TYPE=ECONTROLS which either complete successfully or prematurely. The controls correspond to the first processed entry. |
| 84 | (54) | CHARACTER | 16 | LAALISTKEY | List controls key value. Returned on successful READ_LCONTROLS requests and on WRITE and MOVE requests which fail because the maximum list key value would be exceeded. Only returned for structures allocated on level 1 or greater coupling facilities. |

IXLYLAA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-------------------------|---|
| Dec | Hex | | | | |
| 100 | (64) | CHARACTER | 16 | LAAMAXLISTKEY | List controls maximum list key value. Returned on successful READ_LCONTROLS requests and on WRITE and MOVE requests which fail because the maximum list key value would be exceeded. Only returned for structures allocated on level 1 or greater coupling facilities. |
| 116 | (74) | CHARACTER | 32 | LAATOTALCNT | Reserved |
| 148 | (94) | SIGNED | 4 | | Total count of in-use entries in the list structure. Returned for successful READ, WRITE, MOVE, and DELETE requests. |
| 152 | (98) | SIGNED | 4 | | Total count of in-use elements in the list structure. Returned for successful READ, WRITE, MOVE, and DELETE requests. |
| 156 | (9C) | SIGNED | 4 | LAALISTCNT (0) | Count of in-use entries or elements residing on the processed list. Returned for successful READ, WRITE, MOVE, DELETE, and READ_LCONTROLS requests. For MOVE requests this field reflects the target list. |
| 156 | (9C) | SIGNED | 4 | LAAREADCNT (0) | Count of entries read by READ_LIST or READ_MULT. Returned for both successful and premature request completion. |
| 156 | (9C) | SIGNED | 4 | LAADELCNT (0) | Count of entries deleted by DELETE_MULT or DELETE_ENTRYLIST. Returned for both successful and premature request completion, and on DELETE_ENTRYLIST when it fails because an entry does not exist or because of an invalid index value, OR because the list number, version number or key comparison failed. |
| 156 | (9C) | SIGNED | 4 | LAAMOVECNT | Count of entries moved or successfully processed. Returned on successful completion of a MOVE_ENTRYLIST request. Also returned for a MOVE_ENTRYLIST when the request completes prematurely, OR the request fails because the list entry does not exist, OR because the index is not valid, OR because the target list number is not valid, OR because the list number, version number or key comparison failed. (CFLEVEL 9) |
| 160 | (A0) | SIGNED | 2 | LAFAILINDEX | Index into ENTRYIDLIST or NAMELIST supplied to a DELETE_ENTRYLIST or MOVE_ENTRYLIST indicating either: the index of the list entry which does not exist, OR the index of the first unprocessed entry when the request completed prematurely or failed due to an invalid index value OR the index of the list entry which encountered a version number, list number or key comparison failure. |
| 162 | (A2) | CHARACTER | 1 | LAACONID | Reserved |
| 163 | (A3) | SIGNED | 1 | | Connection ID of the connection holding the lock, or zeros if no connection holds the lock. Returned for HELDBY locking operations, whenever LOCKCOMP is specified, or whenever a LOCKMODE of COND is specified and the lock is not already appropriately held or not held as is required for successful request completion. Also returned for unconditional SET and NOTHELD operations which fail because the lock is held by a failed persistent connection and for RESET operations when LOCKCOMP is omitted and the request fails because the lock is not held by the invoking connection. Also returned for TEST operations when the lock is not held by the specified connection and for READNEXT operations. |
| 164 | (A4) | SIGNED | 4 | LAALOCKINDEX | The index of the lock found for a request specifying a LOCKOPER value of READNEXT. If the request completed prematurely this is the index of the next lock to be processed. |
| 168 | (A8) | CHARACTER | 20 | LAARESTARTTOKENAREA (0) | Area containing output restart tokens |
| 168 | (A8) | CHARACTER | 20 | LAARESTOKENAREA (0) | |
| 168 | (A8) | CHARACTER | 8 | LAARESTOKEN | Area containing standard restart token Request restart token. Returned on READ_MULT and DELETE_MULT requests which complete prematurely. Valid for connectors that specify ALLOWAUTO=NO on their IXLCONN invocation. |

| Offsets | | | | | |
|---------|------|---------------------|-----|----------------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 176 | (B0) | CHARACTER | 12 | | Unused |
| 168 | (A8) | CHARACTER | 20 | LAAEXTRESTOKENAREA (0) | Area containing extended restart token |
| 168 | (A8) | CHARACTER | 16 | LAAEXTRESTOKEN | Request extended restart token. Returned on READ_MULT and DELETE_MULT requests which complete prematurely. Valid for connectors that specify ALLOWAUTO=YES on their IXLCONN invocation. |
| 184 | (B8) | CHARACTER | 4 | | Reserved |
| 188 | (BC) | SIGNED .1.. | 1 | LAAFLAGS1 (0) LAAENTRYCREATED | Flags "X'40" The request created a new entry. Returned on successful WRITE requests and successful MOVE requests when DATAOPER=WRITE is specified. Only returned for structures allocated on level 1 or greater coupling facilities. |
| 189 | (BD) | CHARACTER | 3 | | Reserved |
| 192 | (C0) | CHARACTER | 32 | LAASECONDARYKEY | Secondary Key - this is returned for WRITE, MOVE, and DELETE whenever the request completes successfully. These are also returned for the following requests for the following failure conditions: READ: because of list number, version number or key comparison failure, or because the buffer is too small to contain the entry being read WRITE: because of list number, version number or key comparison failure, or because the specified entryID was not unique which prevented the creation of a new entry. MOVE: because of list number, version number or key comparison failure DELETE: because of a list number, version number or key comparison failure READ_LIST: because of a list number comparison failure, or because the buffer is too small to contain the first entry being read READ_MULT: because the buffer is too small to contain the first entry being read MOVE_ENTRYLIST: because of a list number, version number or key comparison failure DELETE_LIST: because of a list number comparison failure, or because the request completed prematurely DELETE_ENTRYLIST: because of a list number, version number of key comparison failure |
| 224 | (E0) | CHARACTER | 8 | | Reserved |
| 232 | (E8) | SIGNED | 4 | LAASUSPENDTIME | Suspend time for request (microseconds). Will be zero if the request was not suspended or if the support for suspend time computation is not installed. |

Comment

Fields reserved for system use

End of Comment

| | | | | | |
|-----|-------|-----------|----|------------------|--|
| 236 | (EC) | CHARACTER | 20 | LAARSVD (0) | Reserved |
| 236 | (EC) | CHARACTER | 4 | LAARSVD1 | Reserved for system use |
| 240 | (F0) | CHARACTER | 16 | LAARSVD2 | Reserved for system use |
| 256 | (100) | CHARACTER | 1 | LAAEND (0) | End IXLLIST answer area |
| 256 | (100) | X'100' | 0 | LAAMAXSIZELEVEL0 | "256" Maximum size in bytes of LAA at macro level 0. |
| 256 | (100) | X'0' | 0 | LAALEVEL# | "0" Macro level number |
| 256 | (100) | X'0' | 0 | LAALEVELNUM | "0" Macro level number |
| 256 | (100) | X'100' | 0 | LAA_LEN | "*-LAA" |

IXLYLAA Cross Reference

IXLYLAA Cross Reference

| Name | Hex Offset | Hex Value |
|---------------------|------------|-----------|
| LAA | 0 | |
| LAA_LEN | 100 | 100 |
| LAACONID | A3 | |
| LAACURSORDIR | BC | 80 |
| LAADATA | C | |
| LAADELCNT | 9C | |
| LAADEQ | 14 | |
| LAADEQ_EMCCNT | 14 | |
| LAADEQ_NUMEMCREAD | 18 | |
| LAAEND | 100 | |
| LAAENTRYCREATED | BC | 40 |
| LAAEXTRESTOKEN | A8 | |
| LAAEXTRESTOKENAREA | A8 | |
| LAAFALINDEX | A0 | |
| LAAFLAGS1 | BC | |
| LAAHEADER | 0 | |
| LAAMAXSIZELEVEL0 | 100 | 100 |
| LAALCTL | 14 | |
| LAALENGTH | 8 | |
| LAALEVEL | 0 | |
| LAALEVEL# | 100 | 0 |
| LAALEVELNUM | 100 | 0 |
| LAALISTAUTH | 34 | |
| LAALISTCNT | 9C | |
| LAALISTCURSOR | B0 | |
| LAALISTDESC | 14 | |
| LAALISTKEY | 54 | |
| LAALISTLIMIT | 44 | |
| LAALISTTRAN | 48 | |
| LAALMICNT | 4C | |
| LAALOCKINDEX | A4 | |
| LAAMAXLISTKEY | 64 | |
| LAAMNEQ | 14 | |
| LAAMNEQ_EVENTCNT | 9C | |
| LAAMNEQ_EVENTQUEUED | 9B | 1 |
| LAAMNEQ_FLAGS | 9B | |
| LAAMNL | 14 | |
| LAAMNL_ENTRYQUEUED | 9B | 1 |
| LAAMNL_FLAGS | 9B | |
| LAAMNL_LISTCNT | 9C | |
| LAAMNSL | 14 | |
| LAAMNSL_EMCCNT | 9C | |
| LAAMNSL_ENTRYQUEUED | 9B | 1 |
| LAAMNSL_FLAGS | 9B | |
| LAAMNSL_MAXEMCCNT | A0 | |
| LAAMNSLS | 14 | |

| Name | Hex Offset | Hex Value |
|-----------------------------|------------|-----------|
| LAAMNSLS_EMCCNT | 9C | |
| LAAMNSLS_FAILINDEX | 9A | |
| LAAMNSLS_MAXEMCCNT | A0 | |
| LAAMOVECNT | 9C | |
| LAAOFFSET | 4 | |
| LAAOUTDATA | 14 | |
| LAAOUTOTHER | 14 | |
| LAAREADCNT | 9C | |
| LAAREMC | 14 | |
| LAAREMC_CONID | 16 | |
| LAAREMC_EMCKEYTYPE | 17 | 2 |
| LAAREMC_EMCCNT | 17 | 1 |
| LAAREMC_FLAGS | 17 | |
| LAAREMC_LISTENTRYKEY | 1C | |
| LAAREMC_LISTNUM | 18 | |
| LAAREMC_NOTIFYONEVERY | 17 | 4 |
| LAAREMC_SECONDARYKEY | 3C | |
| LAAREMC_UNC | 2C | |
| LAAREQC | 14 | |
| LAAREQC_DRIVEEXIT | 17 | 80 |
| LAAREQC_EMCCNT | 1C | |
| LAAREQC_EVENTQUEUEUETYPE | 17 | 20 |
| LAAREQC_EVENTTRAN | 20 | |
| LAAREQC_FLAGS | 17 | |
| LAAREQC_MONITORINGACTIVE | 17 | 40 |
| LAAREQC_VECTORINDEX | 18 | |
| LAARESTARTTOKENAREA | A8 | |
| LAARESTOKEN | A8 | |
| LAARESTOKENAREA | A8 | |
| LAARETCODE | C | |
| LAARLC | 14 | |
| LAARLCFLAGS | BC | |
| LAARLCKEYRANGEEMPTYCOUNT | A8 | |
| LAARLCKEYRANGEEND | 84 | |
| LAARLCKEYRANGENOTEMPTYCOUNT | AC | |
| LAARLCKEYRANGESTART | 74 | |
| LAARLCLISTAUTH | 34 | |
| LAARLCLISTCNT | | |

| Name | Hex Offset | Hex Value |
|-------------------------|---------------|--------------|
| | 9C | |
| LAARLCLISTCURSOR | B0 | |
| LAARLCLISTDESC | 14 | |
| LAARLCLISTEMPTYCOUNT | A0 | |
| LAARLCLISTKEY | 54 | |
| LAARLCLISTLIMIT | 44 | |
| LAARLCLISTNOTEMPTYCOUNT | A4 | |
| LAARLCLISTTRAN | 48 | |
| LAARLCLMICNT | 4C | |
| LAARLCMAXLISTKEY | 64 | |
| LAARLRMLCTL | 54 | |
| LAARSNCODE | 10 | |
| LAARSVD | EC | |
| LAARSVD1 | EC | |
| LAARSVD2 | F0 | |
| LAASECONDARYKEY | C0 | |
| LAASUSPENDTIME | E8 | |
| LAATOTALCNT | 94 | |
| LAATOTALELECNT | 98 | |

IXLYLCTL Programming Interface information

Programming Interface information

IXLYLCTL

End of Programming Interface information

IXLYLCTL Heading Information

Common Name: List Entry Controls mapping
Macro ID: IXLYLCTL
DSECT Name: LCTL
Owning Component: Cross System Extended Services (SCIXL)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: User specified
 Key: User specified
 Residency: User specified
Size: 64 bytes
Created by: Storage area created by IXLLIST invoker
 Data fields set by IXLLIST service routine
Pointed to by: ANSAREA, BUFFER or BUFLIST
Serialization: See BUFFER/BUFLIST parameter requirements on the IXLLIST interface description.
Function: Maps the list entry controls returned in the IXLLIST answer area specified by ANSAREA, and also maps the list entry controls returned in the area(s) specified by BUFFER or BUFLIST for an IXLLIST READ_LIST or READ_MULT request when list entry controls were requested.

IXLYLCTL Map

| Offsets | | | | | |
|---------|------|------------|-----|----------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | LCTL | , List Entry Controls |
| 0 | (0) | CHARACTER | 32 | LCTLNONMKY (0) | Subset of list entry controls which are always valid |
| 0 | (0) | SIGNED | 1 | LCTLELEMNUM | List entry size expressed as the number of elements in the entry |
| 1 | (1) | CHARACTER | 7 | | Reserved |
| 8 | (8) | SIGNED | 4 | LCTLLISTNUM | The number of the list on which the list entry resides |
| 12 | (C) | CHARACTER | 12 | LCTLENTYID | List entry identifier |
| 24 | (18) | CHARACTER | 8 | LCTLVERSION | List entry version number |
| 32 | (20) | CHARACTER | 16 | LCTLNAME (0) | List entry name. Only meaningful if the structure supports names. |
| 32 | (20) | CHARACTER | 16 | LCTLKEY | List entry key. Only meaningful if the structure supports keys. |
| 48 | (30) | CHARACTER | 16 | | Reserved |
| 64 | (40) | CHARACTER | 1 | LCTLEND (0) | End of List Entry Controls |
| 64 | (40) | X'40' | 0 | LCTL_LEN | **-LCTL" |

IXLYLCTL Cross Reference

| Name | Hex Offset | Hex Value |
|-------------|------------|-----------|
| LCTL | 0 | |
| LCTL_LEN | 40 | 40 |
| LCTLELEMNUM | 0 | |
| LCTLEND | 40 | |
| LCTLENTYID | C | |
| LCTLKEY | 20 | |
| LCTLLISTNUM | 8 | |
| LCTLNAME | 20 | |
| LCTLNONMKY | 0 | |
| LCTLVERSION | 18 | |

IXLYLEPL Programming Interface information

Programming Interface information

IXLYLEPL

End of Programming Interface information

IXLYLEPL Heading Information

Common Name: List Transition Exit Parameter List
Macro ID: IXLYLEPL
DSECT Name: LEPL
Owning Component: Cross System Extended Services (SCIXL)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: 205
 Key: 0
 Residency: Above 16 MB in virtual storage.
Size: LEPL -- X'0040' bytes
Created by: IXLX1LTE
Pointed to by: R1 points to a word which contains the address of the LEPL on entry to the list transition exit.
Serialization: None required
Function: Mapping of parameter list of list transition exit interface to user of XES.

IXLYLEPL Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|----------------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | LEPL | List transition exit parm list |
| 0 | (0) | CHARACTER | 24 | LEPLCONNINFOTARGET (0) | This section contains information about the connector whose List Transition Exit has been driven. |
| 0 | (0) | CHARACTER | 16 | LEPLCONTOKEN | Connect token of the connector whose List Transition Exit has been driven. |
| 16 | (10) | BITSTRING | 8 | LEPLCONDDATA | Connect-time data of the connector whose List Transition Exit has been driven. |
| 24 | (18) | CHARACTER | 4 | LEPLCONNINFOSUBJECT (0) | This section contains information about the event presented to the connector. |
| 24 | (18) | SIGNED | 2 | LEPLEVENT | Event code, see below |
| 26 | (1A) | SIGNED | 2 | | Reserved |
| 28 | (1C) | CHARACTER | 12 | LEPLVECTORTOKEN | Vector Token |
| 40 | (28) | CHARACTER | 24 | | Reserved |
| 40 | (28) | X'1' | 0 | LEPLLISTTRANS | "1" Structure Event: A list header or user's event queue (or both) in the structure to which the user is connected has transitioned from an empty to non-empty state |
| 40 | (28) | X'40' | 0 | LEPL_LEN | "*-LEPL" |

IXLYLEPL Cross Reference

| Name | Hex Offset | Hex Value |
|---------------------|-----------------------|----------------------|
| LEPL | 0 | |
| LEPL_LEN | 28 | 40 |
| LEPLCONDATA | 10 | |
| LEPLCONNINFOSUBJECT | 18 | |
| LEPLCONNINFOTARGET | 0 | |
| LEPLCONTOKEN | 0 | |
| LEPLEVENT | 18 | |
| LEPLLISTTRANS | 28 | 1 |
| LEPLVECTORTOKEN | 1C | |

IXLYLMI Programming Interface information

Programming Interface information

IXLYLMI

End of Programming Interface information

IXLYLMI Heading Information

Common Name: List Monitoring Information
Macro ID: IXLYLMI
DSECT Name: LMI
Owning Component: Cross System Extended Services (SCIXL)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: User specified
 Key: User specified
 Residency: User specified
Size: 8 bytes
 LMI -- X'0008' bytes
 KRMI -- X'0008' bytes
Created by: Storage area created by IXLLIST/IXLLSTC invoker
 Data fields set by IXLLIST/IXLLSTC service routine
Pointed to by: BUFFER or BUFLIST
Serialization: See BUFFER/BUFLIST parameter requirements on the IXLLIST/IXLLSTC interface description.
Function: Maps the list monitoring information for a connection identifier returned from a READ_LCONTROLS request.
 Also maps the Keyrange monitoring information for a connection identifier returned from a READ_LCONTROLS request from a CF with CFLEVEL >= 9.
 The IXLYLAA LAALMICNT field contains the count of list monitoring information entries returned and the count of Keyrange monitoring information entries returned from a CF with CFLEVEL >=9.
 The list monitoring entries are numbered from from 0 to LAALMICNT-1. The Keyrange monitoring entries, if returned, are also numbered from 0 to LAALMICNT-1, and follow the list monitoring information entries.
 (LAALMICNT is one entry greater than the UID limit)
 The first entry (number 0) of both the list monitoring information entries and the Keyrange monitoring information entries is not used. The rest of the entries correspond to the connections, e.g. entry number 1 corresponds to the connection with ConId=1.

IXLYLMI Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|----------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | LMI | List Monitoring information |
| 0 | (0) | BITSTRING | 1 | LMIFLAGS (0) | Bit level fields |
| | | 1... | | LMILMACTIVE | "X'80" List monitoring active bit: 0 ==> The associated connection is not monitoring the list 1 ==> The associated connection is monitoring the list |
| | | .1.. | | LMIDRIVEEXIT | "X'40" List transition exit bit: This bit is only meaningful if the LmiLMActive bit is set. 0 ==> The list transition exit for the associated connection will not be driven on empty to non-empty list state transitions. 1 ==> The list transition exit for the associated connection will be driven on empty to non- empty list state transitions. |
| 1 | (1) | CHARACTER | 3 | | Reserved |
| 4 | (4) | SIGNED | 4 | LMIVECTORINDEX | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|------------|---|
| Dec | Hex | | | | |
| 8 | (8) | CHARACTER | 1 | LMIEND (0) | List notification vector index: The index of the vector entry being used to monitor list state changes for the associated connection. |
| 8 | (8) | X'8' | 0 | LMI_LEN | End List Monitoring Information "-LMI" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|-----------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | KRMI | KeyRange Monitoring information (CFLEVEL >=9) |
| 0 | (0) | BITSTRING | 1 | KRMIFLAGS (0) | Bit level fields |
| | | 1... | | KRMILMACTIVE | "X'80" KeyRange monitoring active bit: 0 ==> The associated connection is not monitoring the Key range 1 ==> The associated connection is monitoring the Key range |
| | | .1.. | | KRMIDRIVEEXIT | "X'40" KeyRange transition exit bit. This bit is only meaningful if the KrmiLMActive bit is set. 0 ==> The Keyrange transition exit for the associated connection will not be driven on empty to non-empty state transitions. 1 ==> The Keyrange transition exit for the associated connection will be driven on empty to non-empty state transitions. |
| 1 | (1) | CHARACTER | 3 | KRMIVECTORINDEX | Reserved |
| 4 | (4) | SIGNED | 4 | | KeyRange notification vector index: The index of the vector entry being used to monitor Keyrange state changes for the associated connection. |
| 8 | (8) | CHARACTER | 1 | KRMIEND (0) | End KeyRange Monitoring information |
| 8 | (8) | X'8' | 0 | KRMI_LEN | "-KRMI" |

IXLYLMI Cross Reference

| Name | Hex Offset | Hex Value |
|-----------------|------------|-----------|
| KRMI | 0 | |
| KRMI_LEN | 8 | 8 |
| KRMIDRIVEEXIT | 0 | 40 |
| KRMIEND | 8 | |
| KRMIFLAGS | 0 | |
| KRMILMACTIVE | 0 | 80 |
| KRMIVECTORINDEX | 4 | |
| LMI | 0 | |
| LMI_LEN | 8 | 8 |
| LMIDRIVEEXIT | 0 | 40 |
| LMIEND | 8 | |
| LMIFLAGS | 0 | |
| LMILMACTIVE | 0 | 80 |
| LMIVECTORINDEX | 4 | |

IXLYLRB Programming Interface information

Programming Interface information

IXLYLRB

End of Programming Interface information

IXLYLRB Heading Information

Common Name: Lock Request Block
Macro ID: IXLYLRB
DSECT Name: LRB
Owning Component: Cross System Extended Services (SCIXL)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: User supplied
 Key: User supplied
 Residency: User supplied
Size: LRB_RELEASE_VER0 -- X'00A0' bytes
Created by: IXLLOCK invoker
Pointed to by: REQBUFFER parameter on IXLLOCK
Serialization: See REQBUFFER parameter requirements on the IXLLOCK interface description.
Function: The LRB maps the Lock request blocks provided when the IXLLOCK macro is issued for a PROCESSMULT request.

IXLYLRB Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|-----------|------|------------|-----|-------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | LRB_RELEASE_VER0 | IXLLOCK Lock Request Block used for specifying a request to release (i.e. Unlock) a resource and either delete or keep the associated record data element |
| 0 | (0) | SIGNED | 1 | LRB_XTYPE | LRBs are specified on a request type (Obtain, Alter, Release) basis. When specifying a request using this mapping the user must set this field to the value of LRB_XType_ReleaseVers0 |
| 1 | (1) | CHARACTER | 7 | LRB_XRNAME | Reserved. Should be initialized to binary zeroes |
| 8 | (8) | CHARACTER | 64 | | Resource Name |
| 72 | (48) | SIGNED | 4 | | Hash Value |
| 76 | (4C) | CHARACTER | 64 | | User Data Value |
| 140 | (8C) | SIGNED | 1 | LRB_XMODE | Mode in which the request should be completed if XES is unable to do so immediately. Valid modes for the type of requests that may be specified for this type of LRB are SYNCEXIT (specify by constant LRB_MODE_SYNCEXIT) or NORESPONSE (Specify by constant LRB_MODE_NORESPONSE). Note, SYNCSPEND and SYNCFAIL mode requests are not supported through the Lock Request Block (LRB) Interface. |
| 141 | (8D) | SIGNED | 1 | LRB_XRDATA (0) | Reserved, should be initialized to binary zeroes |
| 142 | (8E) | BITSTRING | 1 | | Record data options that are to be performed as part of releasing the resource. The record data options that may be validly specified via this type of LRB include Delete the record data entry (Note, this is processed in the same manner as an IXLLOCK REQUEST(RELEASE) RDATA(DELETE) request. Please consult the IXLLOCK macro for more information on this option) or KEEP the record data entry (Note, this is processed in the same manner as an IXLLOCK REQUEST(RELEASE) RDATA(KEEP) UPDATERDATA(NO). The ability to update record data when keeping it is not supported by this version of the LRB. Please consult the IXLLOCK macro for more information on this option). If this field contains a value other than LRB_Rdata_Delete_Mask or LRB_Rdata_Keep_Mask then XES will treat the request as if LRB_RDATA_DELETE_MASK was specified |
| ..1. | | | | LRB_XRDATA_DELETE | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|----------------------|--|
| Dec | Hex | | | | |
| | |1.. | | LRB_XRDATA_KEEP | "X'20" When this bit is ON, XES will process this release request similar to an IXLLOCK REQUEST(RELEASE) RDATA(DELETE) request. This bit may be explicitly set to ON or the LRB_RData_Mask constants may be used to set the entire LRB_RData field |
| | | | | | "X'04" When this bit is ON, XES will process this release request similar to an IXLLOCK REQUEST(RELEASE) RDATA(KEEP) UPDATERDATA(NO) request. This bit may be explicitly set to ON or the LRB_RData_Mask constants may be used to set the entire LRB_RData field |
| 143 | (8F) | CHARACTER | 5 | LRB_XRETCODE | Reserved, should be initialized to binary zeroes |
| 148 | (94) | SIGNED | 4 | | Return code from this request. Note any return code that may be received in response to the IXLLOCK request options that are analogous to those specified on this Lock Request Block may also be received in this area. For instance, if the request needs to be completed asynchronously due to contention then this field will contain a warning value (rc=4, with the LRB_RSNCODE set to lxlRsnCodeAsync). Any return codes that deal with XES's processing of the request buffer as a whole (i.e. processing halted due to inaccessible REQBUFFER storage, etc.) are returned via the Retcode, rsncode parameters on the IXLLOCK interface |
| 152 | (98) | SIGNED | 4 | LRB_XRSNCODE | Similar to the LRB_Retcode field, this area contains the reason code indicating the disposition of the request that was specified via this Lock request Block (LRB) |
| 156 | (9C) | CHARACTER | 4 | LRB_RELEASE_VER0_LEN | Reserved, should be initialized to binary zeroes |
| 156 | (9C) | X'A0' | 0 | | **-LRB_RELEASE_VER0" |

IXLYLRB Cross Reference

| Name | Hex Offset | Hex Value |
|----------------------|------------|-----------|
| LRB_RELEASE_VER0 | 0 | |
| LRB_RELEASE_VER0_LEN | 9C | A0 |
| LRB_XHASHVAL | 48 | |
| LRB_XMODE | 8C | |
| LRB_XRDATA | 8E | |
| LRB_XRDATA_DELETE | 8E | 20 |
| LRB_XRDATA_KEEP | 8E | 4 |
| LRB_XRETCODE | 94 | |
| LRB_XRNAME | 8 | |
| LRB_XRSNCODE | 98 | |
| LRB_XTYPE | 0 | |
| LRB_XUDATAVAL | 4C | |

IXLYMELI Programming Interface information

Programming Interface information

IXLYMELI

End of Programming Interface information

IXLYMELI Heading Information

| | |
|---------------------|--|
| Common Name: | Move EntryList Input |
| Macro ID: | IXLYMELI |
| DSECT Name: | MELI |
| Owning Component: | Cross System Extended Services (SCIXL) |
| Eye-Catcher ID: | NONE |
| Storage Attributes: | Subpool: User specified Key: User specified Residency: User specified |
| Size: | MELI1 -- X'0020' bytes MELI2 -- X'0040' bytes MELI3 -- X'0060' bytes |
| Created by: | Storage area created by IXLLSTM invoker. |
| Pointed to by: | BUFFER or BUFLIST |
| Serialization: | See BUFFER/BUFLIST parameter requirements on the IXLLSTM interface description. |
| Function: | <p>Maps the information needed to identify an individual list entry to be moved and/or updated via the IXLLSTM REQUEST=MOVE_ENTRYLIST service.</p> <p>The storage area(s) indicated by BUFFER or BUFLIST on an IXLLSTM REQUEST=MOVE_ENTRYLIST contain an input array of elements. Each element may be mapped by MELI1, MELI2, or MELI3, and contains the information needed to request moving of a list entry.</p> <p>The format (and size) of each element is determined by the structure characteristics, and the options specified on the IXLLSTM REQUEST=MOVE_ENTRYLIST.</p> <p>Each element in the array is mapped MELI1 when:</p> <ol style="list-style-type: none"> 1. The structure does not support keyed entries and VERSIONCOMPARE=NO or VERSIONCOMPARE=YES is specified. 2. The structure does support keyed entries and MOVETOKEY=UNCHANGED, MOVETOSKEY=UNCHANGED with VERSIONCOMPARE=NO or VERSIONCOMPARE=YES specified. 3. The structure does support keyed entries and MOVETOKEY=LISTKEY, MOVETOSKEY=UNCHANGED with VERSIONCOMPARE=NO or VERSIONCOMPARE=YES specified. <p>Each element in the array is mapped MELI2 when:</p> <ol style="list-style-type: none"> 1. VERSIONCOMPARE=BYENTRY or MOVETOKEY=TARGETKEY is specified with MOVETOSKEY=UNCHANGED. <p>Each element in the array is mapped MELI3 when:</p> <ol style="list-style-type: none"> 1. MOVETOSKEY=TARGETKEY is specified. |

IXLYMELI Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|-----------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | MELI1 | Move EntryList Input |
| 0 | (0) | CHARACTER | 16 | MELI1_LIST_ENTRYNAME (0) | List Entry Name - designates the list entry to be moved when ListType=NameList is specified |
| 0 | (0) | CHARACTER | 12 | MELI1_LIST_ENTRYID | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|-------------------------|-----|--|---|
| Dec | Hex | | | | |
| 16 | (10) | SIGNED | 4 | MELI1_TARGET_LISTNUMBER | List Entry Id - designates the list entry to be moved when ListType=IdList is specified |
| 20 | (14) | BITSTRING 1... | 1 | MELI1_FLAGS (0) MELI1_TARGET_DIRECTION | Target List Number - designates the list number the designated list entry will be moved to Flags0 |
| | | .1... | | MELI1_SKEY_TARGET_DIRECTION | "X'80" Target direction - partially designates the target position on the list specified by Meli1_Target_ListNumber 0 - HeadToTail 1 - TailToHead |
| | | ..1. | | MELI1_KEY_POSITION | "X'40" Secondary target direction - partially designates the target position on the sublist specified by Meli1_Target_ListNumber and the secondary key of the list entry 0 - HeadToTail 1 - TailToHead |
| | | ...1 | | MELI1_SKEY_POSITION | "X'20" Key Position - indicates whether the list entry should be moved or should keep its current position on the sublist based on entry key ordering. 0 - Update position, specifies that the list entry should be moved from its current position on the sublist as specified by Meli1_Target_Direction. 1 - Keep position, specifies that the list entry should not be moved but keep its current position based on entry key ordering on the sublist if and only if the list number specified by Meli1_Target_ListNumber matches the current list number that contains the list entry, and the list entry key is not changed by the move operation when MOVETOKEY=UNCHANGED |
| 21 | (15) | BITSTRING .1... | 1 | MELI1_FLAGS1 (0) MELI1_TARGET_LISTLIMIT | Flags1 |
| | | | | | "X'40" Target ListLimit - indicates whether the listlimit set for the target list should be enforced or ignored. 0 - Enforce target list limits, specifies that the move request will be failed if the list limit (list-element count limit or list- entry count limit) are exceeded as a result of moving this entry 1 - Ignore target list limit, specifies that processing of this entry will proceed even if the current listlimit will be exceeded as a result of moving this entry |
| 22 | (16) | CHARACTER | 10 | | Reserved |
| 32 | (20) | CHARACTER | 1 | MELI1_END (0) | End of MELI type 1 |
| 32 | (20) | X'20' | 0 | MELI1_LEN | "*-MELI1" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|--------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | MELI2 | Move EntryList Input |
| 0 | (0) | CHARACTER | 16 | MELI2_LIST_ENTRYNAME (0) | |
| | | | | | List Entry Name - designates the list entry to be moved when ListType=NameList is specified |
| 0 | (0) | CHARACTER | 12 | MELI2_LIST_ENTRYID | |

IXLYMELI Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------------------|-----|--|--|
| Dec | Hex | | | | |
| 16 | (10) | SIGNED | 4 | MELI2_TARGET_LISTNUMBER | List Entry Id - designates the list entry to be moved when ListType=IdList is specified |
| 20 | (14) | BITSTRING 1... | 1 | MELI2_FLAGS (0) MELI2_TARGET_DIRECTION | Target List Number - designates the list number the designated list entry will be moved to Flags |
| | | .1.. | | MELI2_SKEY_TARGET_DIRECTION | "X'80" Target direction - partially designates the target position on the list specified by Meli2_Target_ListNumber 0 - HeadToTail 1 - TailToHead |
| | | ..1. | | MELI2_KEY_POSITION | "X'40" Secondary target direction - partially designates the target position on the sublist specified by Meli2_Target_ListNumber and the secondary key of the list entry 0 - HeadToTail 1 - TailToHead |
| | | ...1 | | MELI2_SKEY_POSITION | "X'20" Key Position - indicates whether the list entry should be moved or should keep its current position on the sublist based on entry key ordering. 0 - Update position, specifies that the list entry should be moved from its current position on the sublist as specified by Meli2_Target_Key and Meli2_Target_Direction. 1 - Keep position, specifies that the list entry should not be moved but keep its current position based on entry key ordering on the sublist if and only if the list number specified by Meli2_Target_ListNumber matches the current list number that contains the list entry, and the list entry key is not changed by the move operation when MOVETOKEY=UNCHANGED |
| | | 11.. | | MELI2_VERSCOMPTYPE | "X'10" SKey Position - indicates whether the list entry should be moved or should keep its current position on the secondary sublist. 0 - Update position, specifies that the list entry should be moved from its current position to a position on the subsidiary sublist as specified by Meli2_SKey_Target_Direction. 1 - Keep position, specifies that the list entry should not be moved but keep its current position based on secondary key ordering on the sublist if and only if the list number specified by Meli2_Target_ListNumber matches the current list number that contains the list entry. |
| | |11 | | MELI2_VERSUPDATE | "X'0C" Version comparison type Designates how the list entry version number is to be compared when VERSIONCOMPARE=BYENTRY is specified on IXLLSTM. 00 - No comparison 01 - The version numbers in the list entry must be equal to the version number in Meli2_VersComp. 10 - The version number in the list entry must be greater than or equal to the version number specified in Meli2_VersComp. 11 - The version number in the list entry must be less than or equal to the version number specified in Meli2_VersComp. |
| 21 | (15) | BITSTRING .1.. | 1 | MELI2_FLAGS1 (0) MELI2_TARGET_LISTLIMIT | "X'03" Version update - specifies if the entry version number of the moved list entry will be updated. 00 - No update 01 - Decrement version 10 - Increment version 11 - Update version number with Meli2_NewVersion Flags1 |
| | | | | | "X'40" Target ListLimit - indicates whether the listlimit set for the target list should be enforced or ignored. 0 - Enforce target list limits, specifies that the move request will be failed if the list limit (list-element count limit or list- entry count limit) are exceeded as a result of moving this entry 1 - Ignore target list limit, specifies that processing of this entry will proceed even if the current listlimit will be exceeded as a result of moving this entry |

| Offsets | | | | | |
|---------|------|------------|-----|------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 22 | (16) | CHARACTER | 10 | | Reserved |
| 32 | (20) | CHARACTER | 8 | MELI2_VERSCOMP | Comparative version number specifies the value to be compared to the version number of the designated entry when Meli2_VersCompType is not NONE. |
| 40 | (28) | CHARACTER | 8 | MELI2_NEWVERSION | New version number to be assigned to the list entry when it has been moved to the target list when Meli2_VersUpdate is SET |
| 48 | (30) | CHARACTER | 16 | MELI2_TARGET_KEY | Target List Entry Key - specifies the entry key to be assigned to the list entry when it is moved to the target list. Only valid when MOVETOKEY=TARGETKEY was specified on IXLLSTM. |
| 64 | (40) | CHARACTER | 1 | MELI2_END (0) | End of MELI type 2 |
| 64 | (40) | X'40' | 0 | MELI2_LEN | **-MELI2" |

| Offsets | | | | | |
|---------|------|------------------------|-----|---|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | MELI3 | Move EntryList Input |
| 0 | (0) | CHARACTER | 12 | MELI3_LIST_ENTRYID | List Entry Id - designates the list entry to be moved when ListType=IdList is specified |
| 12 | (C) | CHARACTER | 4 | | Reserved |
| 16 | (10) | SIGNED | 4 | MELI3_TARGET_LISTNUMBER | Target List Number - designates the list number the designated list entry will be moved to |
| 20 | (14) | BITSTRING 1... | 1 | MELI3_FLAGS (0) MELI3_TARGET_DIRECTION | Flags "X'80" Target direction - partially designates the target position on the list specified by Meli3_Target_ListNumber 0 - HeadToTail 1 - TailToHead |
| | | .1.. | | MELI3_SKEY_TARGET_DIRECTION | "X'40" Secondary key target direction - partially designates the target position on the sublist specified by Meli3_Target_ListNumber and the secondary key of the list entry 0 - HeadToTail 1 - TailToHead |
| | | ..1. | | MELI3_KEY_POSITION | "X'20" Key Position - indicates whether the list entry should be moved or should keep its current position on the sublist based on entry key ordering. 0 - Update position, specifies that the list entry should be moved from its current position on the sublist as specified by Meli3_Target_Key and Meli3_Target_Direction. 1 - Keep position, specifies that the list entry should not be moved but keep its current position based on entry key ordering on the sublist if and only if the list number specified by Meli3_Target_ListNumber matches the current list number that contains the list entry, and the list entry key is not changed by the move operation when MOVETOKEY=UNCHANGED |
| | | 11.. | | MELI3_VERSCOMPTYPE | "X'0C" Version comparison type Designates how the list entry version number is to be compared when VERSIONCOMPARE=BYENTRY is specified on IXLLSTM. 00 - No comparison 01 - The version numbers in the list entry must be equal to the version number in Meli3_VersComp. 10 - The version number in the list entry must be greater than or equal to the version number specified in Meli3_VersComp. 11 - The version number in the list entry must be less than or equal to the version number specified in Meli3_VersComp. |
| | |11 | | MELI3_VERSUPDATE | "X'03" Version update - specifies if the entry version number of the moved list entry will be updated. 00 - No update 01 - Decrement version 10 - Increment version 11 - Update version number with Meli3_NewVersion |

IXLYMELI Map

| Offsets | | | | | |
|---------|------|------------|-----|-------------------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 21 | (15) | BITSTRING | 1 | MELI3_FLAGS1 (0) | Flags1 |
| | | .1.. | | MELI3_TARGET_LISTLIMIT | "X'40'" Target ListLimit - indicates whether the listlimit set for the target list should be enforced or ignored. 0 - Enforce target list limits, specifies that the move request will be failed if the list limit (list-element count limit or list- entry count limit) are exceeded as a result of moving this entry 1 - Ignore target list limit, specifies that processing of this entry will proceed even if the current listlimit will be exceeded as a result of moving this entry |
| 22 | (16) | CHARACTER | 10 | | Reserved |
| 32 | (20) | CHARACTER | 8 | MELI3_VERSCOMP | Comparative version number specifies the value to be compared to the version number of the designated entry when Meli3_VersCompType is not NONE. |
| 40 | (28) | CHARACTER | 8 | MELI3_NEWVERSION | New version number to be assigned to the list entry when it has been moved to the target list when Meli3_VersUpdate is SET |
| 48 | (30) | CHARACTER | 16 | MELI3_TARGET_KEY | Target List Entry Key - specifies the entry key to be assigned to the list entry when it is moved to the target list. Only valid when MOVETOKEY=TARGETKEY was specified on IXLLSTM. |
| 64 | (40) | CHARACTER | 32 | MELI3_TARGET_SKEY | Secondary Target List Entry Key - specifies the secondary list key to be assigned to the list entry when it is moved to the target list. Only valid when MOVETOSKEY=TARGETKEY was specified on IXLLSTM. |
| 96 | (60) | CHARACTER | 1 | MELI3_END (0) | End of MELI type 3 |
|  |  | .... .... |  | MELI_DIRECTION_HEADTOTAIL | "B'00000000" |
| | | 1... | | MELI_DIRECTION_TAILTOHEAD | "B'10000000" |
|  |  | .... .... |  | MELI_SKEYDIRECTION_HEADTOTAIL | "B'00000000" |
| | | .1.. | | MELI_SKEYDIRECTION_TAILTOHEAD | "B'01000000" |
|  |  | .... .... |  | MELI_KEYPOSITION_UPDATE | "B'00000000" |
| | | ..1. | | MELI_KEYPOSITION_KEEP | "B'00100000" |
|  |  | .... .... |  | MELI_SKEYPOSITION_UPDATE | "B'00000000" |
| | | ...1 | | MELI_SKEYPOSITION_KEEP | "B'00010000" |
|  |  | .... .... |  | MELI_VERSCOMPTYPE_NONE | "B'00000000" |
| | |1.. | | MELI_VERSCOMPTYPE_EQUAL | "B'00000100" |
| | | 11.. | | MELI_VERSCOMPTYPE_LESSOREQUAL | "B'00001100" |
|  |  | .... .... |  | MELI_VERSUPDATE_NONE | "B'00000000" |
| | |1 | | MELI_VERSUPDATE_DECREMENT | "B'00000001" |
| | |1. | | MELI_VERSUPDATE_INCREMENT | "B'00000010" |
| | |11 | | MELI_VERSUPDATE_SET | "B'00000011" |
|  |  | .... .... |  | MELI_LISTLIMIT_ENFORCE | "B'00000000" |
| | | .1.. | | MELI_LISTLIMIT_IGNORE | "B'01000000" |
| 96 | (60) | X'60' | 0 | MELI3_LEN | "*-MELI3" |

IXLYMELI Cross Reference

| Name | Hex Offset | Hex Value |
|-------------------------------|------------|-----------|
| MELI_DIRECTION_HEADTOTAL | 60 | 0 |
| MELI_DIRECTION_TAILTOHEAD | 60 | 80 |
| MELI_KEYPOSITION_KEEP | 60 | 20 |
| MELI_KEYPOSITION_UPDATE | 60 | 0 |
| MELI_LISTLIMIT_ENFORCE | 60 | 0 |
| MELI_LISTLIMIT_IGNORE | 60 | 40 |
| MELI_SKEYDIRECTION_HEADTOTAL | 60 | 0 |
| MELI_SKEYDIRECTION_TAILTOHEAD | 60 | 40 |
| MELI_SKEYPOSITION_KEEP | 60 | 10 |
| MELI_SKEYPOSITION_UPDATE | 60 | 0 |
| MELI_VERSCOMPTYPE_EQUAL | 60 | 4 |
| MELI_VERSCOMPTYPE_LESSOREQUAL | 60 | C |
| MELI_VERSCOMPTYPE_NONE | 60 | 0 |
| MELI_VERSUPDATE_DECREMENT | 60 | 1 |
| MELI_VERSUPDATE_INCREMENT | 60 | 2 |
| MELI_VERSUPDATE_NONE | 60 | 0 |
| MELI_VERSUPDATE_SET | 60 | 3 |
| MELI1 | 0 | |
| MELI1_END | 20 | |
| MELI1_FLAGS | 14 | |
| MELI1_FLAGS1 | 15 | |
| MELI1_KEY_POSITION | 14 | 20 |
| MELI1_LEN | 20 | 20 |
| MELI1_LIST_ENTRYID | 0 | |
| MELI1_LIST_ENTRYNAME | 0 | |
| MELI1_SKEY_POSITION | 14 | 10 |
| MELI1_SKEY_TARGET_DIRECTION | 14 | 40 |
| MELI1_TARGET_DIRECTION | 14 | 80 |
| MELI1_TARGET_LISTLIMIT | 15 | 40 |
| MELI1_TARGET_LISTNUMBER | 10 | |
| MELI2 | 0 | |
| MELI2_END | 40 | |
| MELI2_FLAGS | 14 | |
| MELI2_FLAGS1 | 15 | |
| MELI2_KEY_POSITION | 14 | 20 |
| MELI2_LEN | 40 | 40 |
| MELI2_LIST_ENTRYID | | |

| Name | Hex Offset | Hex Value |
|-----------------------------|------------|-----------|
| MELI2_LIST_ENTRYNAME | 0 | |
| MELI2_NEWVERSION | 28 | |
| MELI2_SKEY_POSITION | 14 | 10 |
| MELI2_SKEY_TARGET_DIRECTION | 14 | 40 |
| MELI2_TARGET_DIRECTION | 14 | 80 |
| MELI2_TARGET_KEY | 30 | |
| MELI2_TARGET_LISTLIMIT | 15 | 40 |
| MELI2_TARGET_LISTNUMBER | 10 | |
| MELI2_VERSCOMP | 20 | |
| MELI2_VERSCOMPTYPE | 14 | C |
| MELI2_VERSUPDATE | 14 | 3 |
| MELI3 | 0 | |
| MELI3_END | 60 | |
| MELI3_FLAGS | 14 | |
| MELI3_FLAGS1 | 15 | |
| MELI3_KEY_POSITION | 14 | 20 |
| MELI3_LEN | 60 | 60 |
| MELI3_LIST_ENTRYID | 0 | |
| MELI3_NEWVERSION | 28 | |
| MELI3_SKEY_TARGET_DIRECTION | 14 | 40 |
| MELI3_TARGET_DIRECTION | 14 | 80 |
| MELI3_TARGET_KEY | 30 | |
| MELI3_TARGET_LISTLIMIT | 15 | 40 |
| MELI3_TARGET_LISTNUMBER | 10 | |
| MELI3_TARGET_SKEY | 40 | |
| MELI3_VERSCOMP | 20 | |
| MELI3_VERSCOMPTYPE | 14 | C |
| MELI3_VERSUPDATE | 14 | 3 |

IXLYMRTD Programming Interface information

Programming Interface information

IXLYMRTD

End of Programming Interface information

IXLYMRTD Heading Information

Common Name: Mapping of Multiple Record Data Entries
Macro ID: IXLYMRTD
DSECT Name: MRTD MRTD1
Owning Component: Cross System Extended Services (SCIXL)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: User-supplied
Key: User-supplied
Residency: User-supplied
Size: MRTD -- X'0050' bytes
MRTD1 -- X'0070' bytes
Created by: Issuer of IXLRT macro
Pointed to by: DATAREA parameter on IXLRT requests
Serialization: None required
Function: Maps the data returned by IXLRT macro invocation

IXLYMRTD Map

| Offsets | | | | | |
|---------|------|------------|-----|----------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | MRTD | Record Data Entry Information, level 0 |
| 0 | (0) | CHARACTER | 80 | MRTDENTRY (0) | |
| 0 | (0) | CHARACTER | 12 | MRTDENTRYID | Entry identifier of the specified Record Data Element |
| 12 | (C) | CHARACTER | 4 | (0) | |
| 12 | (C) | SIGNED | 1 | MRTDOWNERCONID | |
| | | | | | Conid of the connector for which the specified Record Data Elementis associated |
| 13 | (D) | CHARACTER | 3 | | Reserved |
| 16 | (10) | CHARACTER | 64 | MRTDDATA | Record Element contents |
| 16 | (10) | X'50' | 0 | MRTD_LEN | "*-MRTD" |

| Offsets | | | | | |
|---------|------|------------|-----|----------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | MRTD1 | Record Data Entry Information, level 1 |
| 0 | (0) | CHARACTER | 112 | MRTD1ENTRY (0) | MRTD entry |
| 0 | (0) | CHARACTER | 80 | | Mapped by MRTD mapping, level 0 |
| 80 | (50) | CHARACTER | 8 | MRTD1RDATATYPE | |
| | | | | | Record Data type |
| 88 | (58) | CHARACTER | 24 | | Reserved |
| 88 | (58) | X'70' | 0 | MRTD1_LEN | "*-MRTD1" |

IXLYMRTD Cross Reference

| Name | Hex Offset | Hex Value |
|----------------|------------|-----------|
| MRTD | 0 | |
| MRTD_LEN | 10 | 50 |
| MRTDDATA | 10 | |
| MRTDENTRY | 0 | |
| MRTDENTRYID | 0 | |
| MRTDOWNERCONID | C | |
| MRTD1 | 0 | |
| MRTD1_LEN | 58 | 70 |
| MRTD1ENTRY | 0 | |
| MRTD1RDATATYPE | 50 | |

IXLYMSRI Programming Interface information

Programming Interface information

IXLYMSRI

End of Programming Interface information

IXLYMSRI Heading Information

Common Name: Monitor Sublist Registration Input
Macro ID: IXLYMSRI
DSECT Name: MSRI
Owning Component: Cross System Extended Services (SCIXL)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: User specified
 Key: User specified
 Residency: User specified
Size: 64 bytes
 MSRI -- X'0040' bytes
Created by: Storage area created by IXLLIST/IXLLSTC invoker.
Pointed to by: BUFFER or BUFLIST
Serialization: See BUFFER/BUFLIST parameter requirements on the IXLLIST/IXLLSTC interface description.
Function: Maps the information needed to identify an individual sublist when invoking the IXLLIST/IXLLSTC service to monitor sublists.
 The storage area(s) indicated by BUFFER or BUFLIST on an IXLLIST/IXLLSTC REQUEST=MONITOR_SUBLISTS contain an input array of entries. Each entry is mapped by MSRI and contains the information needed to request monitoring for one sublist.

IXLYMSRI Map

| Offsets | | | | | |
|---------|------|------------|-----|----------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | MSRI | Sublist Monitoring input |
| 0 | (0) | CHARACTER | 1 | | Reserved, specify as zero |
| 1 | (1) | SIGNED | 1 | MSRICONID | Connection identifier |
| 2 | (2) | CHARACTER | 5 | | Reserved, specify as zero |
| 7 | (7) | BITSTRING | 1 | MSRIEMC_FLAGS (0) | Event Monitor Control Flags |
| | |1.. | | MSRIEMC_NOTIFYONEVERY | "X'04" 1 ==> indicates that an EMC should be queued to the event queue for every list entry added to the sublist (CFLEVEL >= 9) 0 ==> indicates that an EMC should be queued to the event queue for only the first list entry added to the sublist |
| | |1. | | MSRIEMC_KEYTYPE | "X'02" 1 ==> indicates sublist monitoring is requested for a sublist with the secondary key specified by MsriSecondaryKey (CFLEVEL >= 9) 0 ==> indicates sublist monitoring is requested for a sublist with a list entry key specified by MsriListEntryKey |
| 8 | (8) | SIGNED | 4 | MSRILISTNUM | The list number of the sublist for which monitoring is desired |
| 12 | (C) | CHARACTER | 4 | | Reserved, specify as zero |
| 16 | (10) | CHARACTER | 32 | MSRILISTENTRYKEYS (0) | List Entry or Secondary key indicated by MsriEMC_KeyType |
| 16 | (10) | CHARACTER | 32 | MSRILISTENTRYKEYBUF (0) | KeyType = B'0' |
| 16 | (10) | CHARACTER | 16 | | Reserved, specify as zero |
| 32 | (20) | CHARACTER | 16 | MSRILISTENTRYKEY | KeyType = B'0', List Entry Key of sublist for which monitoring is desired. |
| 16 | (10) | CHARACTER | 32 | MSRISECONDARYKEY | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-------------|---|
| Dec | Hex | | | | |
| 48 | (30) | CHARACTER | 16 | MSRIUNC | KeyType = B'1', Secondary List Entry Key of sublist for which monitoring is desired.(CFLEVEL >= 9) User Notification Controls. 16 bytes of user defined data associated with the monitoring of this sublist. |
| 64 | (40) | CHARACTER | 1 | MSRIEND (0) | End Sublist Monitoring Info |
| 64 | (40) | X'40' | 0 | MSRI_LEN | "*-MSRI" |

IXLYMSRI Cross Reference

| Name | Hex Offset | Hex Value |
|-----------------------|---------------|--------------|
| MSRI | 0 | |
| MSRI_LEN | 40 | 40 |
| MSRICONID | 1 | |
| MSRIEMC_FLAGS | 7 | |
| MSRIEMC_KEYTYPE | 7 | 2 |
| MSRIEMC_NOTIFYONEVERY | 7 | 4 |
| MSRIEND | 40 | |
| MSRILISTENTRYKEY | 20 | |
| MSRILISTENTRYKEYBUF | 10 | |
| MSRILISTENTRYKEYS | 10 | |
| MSRILISTNUM | 8 | |
| MSRISECONDARYKEY | 10 | |
| MSRIUNC | 30 | |

IXLYNDE Programming Interface information

Programming Interface information

IXLYNDE

End of Programming Interface information

IXLYNDE Heading Information

Common Name: Node Descriptor
Macro ID: IXLYNDE
DSECT Name: NDE
Owning Component: Cross System Extended Services (SCIXL)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: user-defined
 Key: user-defined
 Residency: user-defined
Size: 32
 NDE -- X'0020' bytes
Created by: User
Pointed to by: None
Serialization: None
Function: Maps a node descriptor as pertains to coupling facilities

IXLYNDE Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|---------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | NDE | Node Descriptor |
| 0 | (0) | BITSTRING | 4 | NDEWORD0 (0) | Header Word 0 |
| 0 | (0) | BITSTRING | 1 | NDEBYTE0 | Word 0 Byte 0 - RESERVED |
| 1 | (1) | BITSTRING | 1 | NDEBYTE1 (0) | Word 0 Byte 1 |
| | | 1111 | | NDECONFIGCODE | "X'F0'" Configuration code. Bits 0-3. B'0000' indicates side 0, B'0001' indicates side 1. If not partitioned, the value will be B'0000' |
| | |1.. | | NDEPPMODE | "X'04'" PP/SI mode indicator. 0 = processor is in single-image (SI) mode, 1 = processor is in physically partitioned (PP) mode |
| 2 | (2) | BITSTRING | 1 | NDEBYTE2 | Word 0 Byte 2 - RESERVED |
| 3 | (3) | BITSTRING | 1 | NDEBYTE3 (0) | Word 0 Byte 3 |
| 3 | (3) | SIGNED | 1 | NDEPARTITION | LPAR Partition Number |
| 4 | (4) | CHARACTER | 26 | NDEEBCDIC (0) | EBCDIC portion of NDE |
| 4 | (4) | CHARACTER | 6 | NDETYPE | EBCDIC node type |
| 10 | (A) | CHARACTER | 3 | NDEMODEL | EBCDIC model number - this number is not guaranteed to be the current model number. |
| 13 | (D) | CHARACTER | 3 | NDEMFGE | EBCDIC node manufacturer |
| 16 | (10) | CHARACTER | 2 | NDEPLANT | EBCDIC manufacturer plant ID |
| 18 | (12) | CHARACTER | 12 | NDESEQUENCE | EBCDIC sequence number |
| 30 | (1E) | CHARACTER | 2 | (0) | RESERVED |
| 30 | (1E) | CHARACTER | 1 | | |
| 31 | (1F) | SIGNED | 1 | NDECPCID | Central Processor Complex (CPC) identifier |
| 31 | (1F) | X'20' | 0 | NDE_LEN | "*-NDE" |

IXLYNDE Cross Reference

| Name | Hex Offset | Hex Value |
|---------------|-----------------------|----------------------|
| NDE | 0 | |
| NDE_LEN | 1F | 20 |
| NDEBYTE0 | 0 | |
| NDEBYTE1 | 1 | |
| NDEBYTE2 | 2 | |
| NDEBYTE3 | 3 | |
| NDECONFIGCODE | | |
| | 1 | F0 |
| NDECPCID | 1F | |
| NDEEBCDIC | 4 | |
| NDEMFG | D | |
| NDEMODEL | A | |
| NDEPARTITION | 3 | |
| NDEPLANT | 10 | |
| NDEPPMODE | 1 | 4 |
| NDESEQUENCE | 12 | |
| NDETYPE | 4 | |
| NDEWORD0 | 0 | |

IXLYNEPL Programming Interface information

Programming Interface information

IXLYNEPL

End of Programming Interface information

IXLYNEPL Heading Information

Common Name: Notify Exit Parameter List
Macro ID: IXLYNEPL
DSECT Name: NEPL NEPLListSection NEPLLockSection NEPLENT
Owning Component: Cross System Extended Services (SCIXL)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: 205
 Key: Key 0
 Residency: Above 16 MB in virtual storage.
Size: Lock: 360 bytes + 190*NEPLENT# + length of resource name
 List: 108 bytes
Created by: IXLRQNEI for locking requests
 IXLRQLNX for serialized list requests
Pointed to by: First word in parameter list provided to notify exit.
Serialization: None required
Function: Maps parameter list to notify exit for XES connectors

IXLYNEPL Map

| Offsets | | | | | |
|---------|------|------------|-----|-------------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | NEPL | Notify exit parameter list |
| 0 | (0) | CHARACTER | 16 | NEPLCONTOKEN | Connect token |
| 16 | (10) | CHARACTER | 8 | NEPLCONDATA | Connect-time data |
| 24 | (18) | CHARACTER | 16 | NEPLCONNAME | Connect name as specified by connector |
| 40 | (28) | BITSTRING | 1 | NEPLTYPE (0) | Request type that resulted in notify exit being called |
| | | 1... | | NEPLLOCK | "X'80" IXLLOCK request resulted in contention and contention exit specified notify for resource owner |
| | | .1.. | | NEPLLIST | "X'40" IXLLIST request resulted in contention for a lock structure entry |
| 41 | (29) | CHARACTER | 1 | NEPLSTRUCTURESTATUS (0) | Reserved |
| | | 1... | | NEPLREBUILD | "X'80" Resource for which we are being Notified is for the new structure during the rebuild process |
| 42 | (2A) | CHARACTER | 2 | | Reserved |
| 44 | (2C) | CHARACTER | 1 | NEPLEND (0) | Data related to the request is mapped below by NeplLockSection for lock structure requests and NeplListSection for list structure request |
| 44 | (2C) | X'2C' | 0 | NEPL_LEN | "*-NEPL" |

Comment

 Nepl List Section

End of Comment

| | | | | | |
|----|------|-----------|----|---------------------|-----------------------------|
| 44 | (2C) | BITSTRING | 1 | NEPLLISTSECTION (0) | |
| 44 | (2C) | SIGNED | 4 | NEPLLOCKINDEX | LOCKINDEX for this request |
| 48 | (30) | CHARACTER | 4 | | Reserved |
| 52 | (34) | CHARACTER | 24 | NEPLOWNERINFO (0) | |
| 52 | (34) | CHARACTER | 8 | NEPLOWNERLOCKDATA | Lock owner's lock time data |
| 60 | (3C) | BITSTRING | 4 | NEPLOWNERFLAGS (0) | Lock owner flags |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|-------------------|-------|------------|-----|-------------------------|---|
| Dec | Hex | | | | |
| | | 1... | | NEPLOWNERPERSISTENTLOCK | "X'80" 1 -> lock is persistent and therefore the lock data is Zero. |
| 64 | (40) | CHARACTER | 12 | | Reserved |
| 76 | (4C) | CHARACTER | 32 | NEPLPENDINGINFO (0) | Information about pending request |
| 76 | (4C) | CHARACTER | 1 | | Reserved |
| 77 | (4D) | SIGNED | 1 | NEPLPENDINGCONID | Connection Id |
| 78 | (4E) | CHARACTER | 2 | NEPLPENDINGFLAGS (0) | |
| | | 1... | | NEPLPENDINGREQUESTTYPE | "X'80" 1 -> LockOper=Set, 0 -> LockOper=NotHeld |
| 80 | (50) | CHARACTER | 16 | NEPLPENDINGCONNAME | Connection Name |
| 96 | (60) | CHARACTER | 12 | | Reserved |
| 108 | (6C) | CHARACTER | 1 | NEPLLISTSECTIONEND (0) | |
| 108 | (6C) | X'40' | 0 | NEPLLISTSECTION_LEN | **NEPLLISTSECTION" |
| Comment | | | | | |
| ----- | | | | | |
| Nepl Lock Section | | | | | |
| ----- | | | | | |
| End of Comment | | | | | |
| 44 | (2C) | BITSTRING | 1 | NEPLLOCKSECTION (0) | |
| 44 | (2C) | CHARACTER | 8 | NEPLLOCKDATA | Lock time data |
| 52 | (34) | CHARACTER | 32 | NEPLTOKEN | Token used by XES |
| 84 | (54) | ADDRESS | 4 | NEPLRNAME@ | Address of resource name |
| 88 | (58) | SIGNED | 4 | NEPLRNAMELEN | Length of resource name |
| 92 | (5C) | SIGNED | 4 | NEPLHASHVAL | Hash value |
| 96 | (60) | CHARACTER | 32 | NEPLWORK | Work area, passed from the contention exit via the CEPLWORK field. This field will be presented back to the contention exit with the results from the notify exits. The results are presented even if the notify exit released the resource via the IXLSYNCH service unless the contention exit specified stop management. See the IXLYCEPL mapping for more details. |
| 128 | (80) | CHARACTER | 68 | NEPLHELD (0) | |
| 128 | (80) | SIGNED | 1 | NEPLSTATE | Ownership state, Constants in IXLYCON |
| 129 | (81) | CHARACTER | 64 | NEPLUDATA | Userdata |
| 193 | (C1) | CHARACTER | 3 | | Reserved |
| 196 | (C4) | ADDRESS | 4 | NEPLENT@ | Address of requests if NeplENT# is not 0 |
| 200 | (C8) | SIGNED | 4 | NEPLENT# | Number of requests |
| 204 | (CC) | CHARACTER | 147 | NEPLOUT (0) | Input/Output Area for communicating with IXLSYNCH |
| 204 | (CC) | CHARACTER | 68 | NEPLOSU (0) | State and userdata for IXLSYNCH to use for ownership updates. Initialized to NeplHeld. |
| 204 | (CC) | SIGNED | 1 | NEPLOSTATE | Requested ownership state Constants in IXLYCON |
| 205 | (CD) | CHARACTER | 64 | NEPLOUDATA | Requested userdata |
| 269 | (10D) | CHARACTER | 3 | | reserved |
| 272 | (110) | BITSTRING | 1 | NEPLORTACTION (0) | |
| | | 1... | | NEPLORTWRITE | Input area to indicate what to do with Record data |
| | | | | | "X'80" Input area to indicate write the Record data in NeplORTData |
| | | .1.. | | NEPLORTDELETE | |
| | | | | | "X'40" Input area to indicate delete the currently associated Record data entry |
| | | ..11 1111 | | NEPLORTACTIONRSV | |
| | | | | | "X'3F" Reserved, set to 0 |

IXLYNEPL Cross Reference

| Offsets | | | | | |
|---------|-------|------------|-----|---------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 273 | (111) | CHARACTER | 12 | NEPLOENTRYID | Output area specifying identifier of record data entry which may have been created via IXLSYNCH |
| 285 | (11D) | CHARACTER | 64 | NEPLORTDATA | Input area to specify Record data to be written |
| 349 | (15D) | CHARACTER | 2 | NEPLORSV66 | Reserved, set to 0 |
| 349 | (15D) | X'133' | 0 | NEPLLOCKSECTION_LEN | **-NEPLLOCKSECTION" |

| Offsets | | | | | |
|---------|------|------------|-----|-----------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | NEPLENT | Request entry for IXLOCK related requests |
| 0 | (0) | ADDRESS | 4 | NEPLENEXT@ | Address of next NeplENT |
| 4 | (4) | CHARACTER | 4 | NEPLECONVERSION | Requestor's connector version |
| 8 | (8) | CHARACTER | 5 | | Reserved |
| 13 | (D) | SIGNED | 1 | NEPLECONID | Requestor's connector ID |
| 14 | (E) | CHARACTER | 6 | | Reserved |
| 20 | (14) | CHARACTER | 16 | NEPLECONNAME | Connect name as specified by connector |
| 36 | (24) | CHARACTER | 16 | | Reserved |
| 52 | (34) | BITSTRING | 2 | NEPLEFLAGS | |

Comment

Note -- if HSTATE is 0 then the resource is not owned. If
HSTATE not = RSTATE or HUDATA not = RUDATA then an alter of
some sort is pending

End of Comment

| | | | | | |
|-----|------|-----------|-----|---------------------|---|
| 54 | (36) | CHARACTER | 136 | NEPLEHELDREQ (0) | Held/Requested state |
| 54 | (36) | CHARACTER | 68 | NEPLEHELD (0) | Held state |
| 54 | (36) | SIGNED | 1 | NEPLEHSTATE | Ownership state Constants in IXLYCON |
| 55 | (37) | CHARACTER | 64 | NEPLEHUDATA | Userdata |
| 119 | (77) | CHARACTER | 3 | | Reserved |
| 122 | (7A) | CHARACTER | 68 | NEPLEREQ (0) | Requested state |
| 122 | (7A) | SIGNED | 1 | NEPLERSTATE | Requested ownership state, Constants in IXLYCON |
| 123 | (7B) | CHARACTER | 64 | NEPLERUDATA | Requested userdata |
| 187 | (BB) | CHARACTER | 3 | | Reserved |
| 187 | (BB) | X'6C' | 0 | NEPLLISTLEN | "108" |
| 187 | (BB) | X'168' | 0 | NEPLLOCKLEN | "360" |
| 187 | (BB) | X'BE' | 0 | NEPLENT_LEN | **-NEPLENT" |

IXLYNEPL Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|-----------------|---------------|--------------|---------------------|---------------|--------------|
| NEPL | 0 | | NEPLENT_LEN | BB | BE |
| NEPL_LEN | 2C | 2C | NEPLENT# | C8 | |
| NEPLCONDATA | 10 | | NEPLENT@ | C4 | |
| NEPLCONNAME | 18 | | NEPLEREQ | 7A | |
| NEPLCONTOKEN | 0 | | NEPLERSTATE | 7A | |
| NEPLECONID | D | | NEPLERUDATA | 7B | |
| NEPLECONNAME | 14 | | NEPLHASHVAL | 5C | |
| NEPLECONVERSION | | | NEPLHELD | 80 | |
| | 4 | | NEPLLIST | 28 | 40 |
| NEPLEFLAGS | 34 | | NEPLLISTLEN | BB | 6C |
| NEPLEHELD | 36 | | NEPLLISTSECTION | | |
| NEPLEHELDREQ | 36 | | | 2C | |
| NEPLEHSTATE | 36 | | NEPLLISTSECTION_LEN | | |
| NEPLEHUDATA | 37 | | | 6C | 40 |
| NEPLEND | 2C | | NEPLLISTSECTIONEND | | |
| NEPLENEXT@ | 0 | | | 6C | |
| NEPLENT | 0 | | NEPLLOCK | 28 | 80 |

| Name | Hex Offset | Hex Value |
|-------------------------|---------------|--------------|
| NEPLLOCKDATA | 2C | |
| NEPLLOCKINDEX | | |
| | 2C | |
| NEPLLOCKLEN | BB | 168 |
| NEPLLOCKSECTION | | |
| | 2C | |
| NEPLLOCKSECTION_LEN | | |
| | 15D | 133 |
| NEPLOENTRYID | 111 | |
| NEPLORSV66 | 15D | |
| NEPLORTACTION | | |
| | 110 | |
| NEPLORTACTIONRSV | | |
| | 110 | 3F |
| NEPLORTDATA | 11D | |
| NEPLORTDELETE | | |
| | 110 | 40 |
| NEPLORTWRITE | 110 | 80 |
| NEPLOSTATE | CC | |
| NEPLOSU | CC | |
| NEPLOUDDATA | CD | |
| NEPLOUT | CC | |
| NEPLOWNERFLAGS | | |
| | 3C | |
| NEPLOWNERINFO | | |
| | 34 | |
| NEPLOWNERLOCKDATA | | |
| | 34 | |
| NEPLOWNERPERSISTENTLOCK | | |
| | 3C | 80 |
| NEPLPENDINGCONID | | |
| | 4D | |
| NEPLPENDINGCONNAME | | |
| | 50 | |
| NEPLPENDINGFLAGS | | |
| | 4E | |
| NEPLPENDINGINFO | | |
| | 4C | |
| NEPLPENDINGREQUESTTYPE | | |
| | 4E | 80 |
| NEPLREBUILD | 29 | 80 |
| NEPLRNAME@ | 54 | |
| NEPLRNAMELEN | 58 | |
| NEPLSTATE | 80 | |
| NEPLSTRUCTURESTATUS | | |
| | 29 | |
| NEPLTOKEN | 34 | |
| NEPLTYPE | 28 | |
| NEPLUDATA | 81 | |
| NEPLWORK | 60 | |

IXLYNSB Programming Interface information

Programming Interface information

IXLYNSB

End of Programming Interface information

IXLYNSB Heading Information

Common Name: Register Name List Name-State Block
Macro ID: IXLYNSB
DSECT Name: NSB
Owning Component: Cross System Extended Services (SCIXL)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: User supplied
 Key: User supplied
 Residency: User supplied
Size: NSB -- X'0100' bytes
Created by: - Storage area created by IXLCACHE invoker
 - NSB data created by IXLCACHE service routine
Pointed to by: NSBAREA parameter on IXLCACHE
Serialization: See NSBAREA parameter requirements on the IXLCACHE interface description.
Function: The NSB maps the information returned when the IXLCACHE macro is issued for a REG_NAMELIST request.

IXLYNSB Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|----------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | NSB | Register Name List Name-State Block |
| 0 | (0) | CHARACTER | 64 | NSBARRAYCHAR (0) | Entire NSB array |
| 0 | (0) | CHARACTER | 2 | NSBARRAY (0) | Array of NSB entries |
| 0 | (0) | BITSTRING | 1 | NSBFLAGS (0) | Name-State Block Flags. Valid when interest was successfully registered for the associated item. |
| | | 1... | | NSBCHANGED | "X'80" Cached subsystem data changed status. 1 ==> changed, 0 ==> unchanged |
| | | .1.. | | NSBDATAACACHED | "X'40" Data-cached indicator. Indicates whether subsystem data is cached for the entry (vs. directory entry only in cache). 1 ==> data cached, 0 ==> data not cached |
| | | ..11 | | NSBPARITY | "X'30" Parity as recorded in the directory entry. |
| | | 11.. | | NSBCOLOCKSTATE | "X'0C" Castout lock state. Constants are declared in IXLYCAA. Possible values are: '00' => CaaCols_Reset Reset state is entered when the name is assigned to the directory entry or when the castout lock is released. '01' => CaaCols_ReadForCastout Read for castout state is entered when the castout lock is obtained by a CASTOUT_DATA request. '10' => CaaCols_WriteWithCastout Write with castout state is entered when the castout lock is obtained by a WRITE_DATA request specifying GETCOLOCK=YES. |
| | |1. | | NSBINVLCVI | "X'02" Invalidated local cache vector validity indicator. Indicates that a local cache vector index was invalidated because interest for the associated item was re-registered using a different vector index. 1 => the associated NsbInvlCviNum array entry contains the invalidated local cache vector index number 0 => the associated NsbInvlCviNum array entry is not valid |
| | |1 | | NSBREGPERFORMED | "X'01" Registration-performed indicator. The registration operation was successful for the entry name and local cache vector index in the corresponding registration block. |
| 1 | (1) | SIGNED | 1 | NSBELEMNUM | Cache entry size expressed as the number of elements in the entry. NsbElemnum is returned only when the structure is allocated in a CFLEVEL=4 or higher coupling facility. |
| 64 | (40) | CHARACTER | 128 | NSBINVLCVINUMARRAYCHAR (0) | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|---------------------------|--|
| Dec | Hex | | | | |
| 64 | (40) | CHARACTER | 4 | NSBINVLCVINUMARRAY (0) | Entire NSB invalidated vector index number array |
| 64 | (40) | SIGNED | 4 | NSBINVLCVINUM | Invalidated local cache vector index number array |
| | | | | | Invalidated local cache vector index number. Value of the local cache vector index that was invalidated when interest for the associated item was re-registered using a different vector index. Valid only when the NsbInvLcvi flag in the corresponding Nsb array entry is set. |
| 192 | (C0) | CHARACTER | 64 | | Reserved |
| 256 | (100) | CHARACTER | 1 | NSBEND (0) | End of NSB |
| 256 | (100) | X'100' | 0 | NSB_LEN | **-NSB" |

IXLYNSB Cross Reference

| Name | Hex Offset | Hex Value |
|------------------------|---------------|--------------|
| NSB | 0 | |
| NSB_LEN | 100 | 100 |
| NSBARRAY | 0 | |
| NSBARRAYCHAR | 0 | |
| NSBCHANGED | 0 | 80 |
| NSBCOLOCKSTATE | 0 | C |
| NSBDATACACHED | 0 | 40 |
| NSBELEMNUM | 1 | |
| NSBEND | 100 | |
| NSBFLAGS | 0 | |
| NSBINVLCVI | 0 | 2 |
| NSBINVLCVINUM | 40 | |
| NSBINVLCVINUMARRAY | 40 | |
| NSBINVLCVINUMARRAYCHAR | 40 | |
| NSBPARITY | 0 | 30 |
| NSBREGPERFORMED | 0 | 1 |

IXLYRTAA Programming Interface information

Programming Interface information

IXLYRTAA

End of Programming Interface information

IXLYRTAA Heading Information

Common Name: IXLRT answer area mapping
Macro ID: IXLYRTAA
DSECT Name: RTAA
Owning Component: Cross System Extended Services (SCIXL)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: User-supplied
 Key: User-supplied
 Residency: User-supplied
Size: 24 bytes
Created by: Issuer of IXLRT macro
Pointed to by: ANSAREA_ADDR in the parameter list points to the RTAA
Serialization: None required
Function: Maps the data returned by IXLRT macro invocation

IXLYRTAA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | RTAA | IXLRT Answer Area |
| 0 | (0) | CHARACTER | 12 | RTAAHEADER (0) | Header |
| 0 | (0) | SIGNED | 4 | RTAALEVEL | Macro level of this version of the IXLYRTAA macro |
| 4 | (4) | SIGNED | 4 | RTAAOFFSET | Offset from the beginning of the structure (Rtaa) to the answer area data (RtaaData) |
| 8 | (8) | SIGNED | 4 | RTAALENGTH | Length of the answer area data |
| 12 | (C) | CHARACTER | 12 | RTAADATA (0) | IXLRT answer area data |
| 12 | (C) | SIGNED | 4 | RTAATOTALCOUNT | Total Count of record data entries allocated for the structure. Returned on CREATENTRY, READENTRY, UPDATENTRY, and DELETENTRY requests. |
| 16 | (10) | SIGNED | 4 | RTAACONNCOUNT (0) | Count of record data entries associated with the target connector. Returned on CREATENTRY, READENTRY, UPDATENTRY, and DELETENTRY requests. |
| 16 | (10) | SIGNED | 4 | RTAAREADCNT (0) | Count of entries read for a READALL or READBYCONN request |
| 16 | (10) | SIGNED | 4 | RTAADELCNT | Count of entries deleted for DELETENTRYLIST or DELETEBYCONN requests |
| 20 | (14) | SIGNED | 4 | RTAAFAILINDEX | Index into the list of entry identifiers supplied on a DELETENTRYLIST request indicating a record data entry which does not exist, or is an invalid index, or index of first unprocessed entry when the DELETENTRYLIST request completed prematurely |
| 20 | (14) | X'0' | 0 | RTAA_LEVEL# | "0" Macro Level Number |
| 20 | (14) | X'18' | 0 | RTAA_LEN | "*-RTAA" |

IXLYRTAA Cross Reference

| Name | Hex Offset | Hex Value |
|----------------|---------------|--------------|
| RTAA | 0 | |
| RTAA_LEN | 14 | 18 |
| RTAA_LEVEL# | 14 | 0 |
| RTAACONNCOUNT | | |
| | 10 | |
| RTAADATA | C | |
| RTAADELCNT | 10 | |
| RTAAFILINDEX | | |
| | 14 | |
| RTAAHEADER | 0 | |
| RTAALENGTH | 8 | |
| RTAALEVEL | 0 | |
| RTAAOFFSET | 4 | |
| RTAAREADCNT | 10 | |
| RTAATOTALCOUNT | | |
| | C | |

IXLYSTRC Programming Interface information

Programming Interface information

IXLYSTRC

End of Programming Interface information

IXLYSTRC Heading Information

Common Name: Partial Dump Reason Code constants
Macro ID: IXLYSTRC
DSECT Name: N/A
Owning Component: Cross System Extended Services (SCIXL)
Eye-Catcher ID: None
Storage Attributes: Subpool: None
 Key: None
 Residency: None
Size: 0 bytes
Created by: None
Pointed to by: None
Serialization: No Requirement
Function: Contains the constants that are used by IPCS, SDUMP, and XES to evaluate the dump reason codes

IXLYSTRC Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|------------------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | | |
| 0 | (0) | X'1' | 0 | STRC_PARTRSNUNEXPECTFAILURE | "1" Unexpected failure SDRSN: SDRSTRLE |
| 0 | (0) | X'2' | 0 | STRC_PARTRSNSTORNOTAVAIL | "2" Storage not available to complete the dump of a structure SDRSN: SDRSTRLE |
| 0 | (0) | X'3' | 0 | STRC_PARTRSNSTRNOTAVAIL | "3" Structure not available SDRSN: SDRSTRSF |
| 0 | (0) | X'4' | 0 | STRC_PARTRSNFACILNOTAVAIL | "4" Facility not available SDRSN: SDRSTRFF |
| 0 | (0) | X'5' | 0 | STRC_PARTRSNNDUMPTBLNOTAVAIL | "5" Structure dump table not available SDRSN: SDRSTRPS |
| 0 | (0) | X'6' | 0 | STRC_PARTRSNNDUMPTBLFULL | "6" Not all of the requested data could fit in the structure dump table SDRSN: SDRSTRLE @P3C |
| 0 | (0) | X'7' | 0 | STRC_PARTRSNLOSSERL | "7" Loss of serialization - Some control and possibly adjunct, object controls, lock table, and user control data not dumped SDRSN: SDRSTRRS |
| 0 | (0) | X'8' | 0 | STRC_PARTRSNSOMEDATANOTSERL | "8" Loss of serialization - Some entry data requested serialized but not dumped serialized SDRSN: SDRSTRRS |
| 0 | (0) | X'9' | 0 | STRC_PARTRSNRECENTERED | "9" Recovery routine entered SDRSN: SDRSTRRC |
| 0 | (0) | X'A' | 0 | STRC_PARTRSNSTRDUMPPARTIAL | "10" Not all of the requested data could be written to the dump dataset. Possible reasons are: 1) Data set is full 2) I/O error 3) Unretryable error SDRSN: none |

Comment

Constants for the No Dump Reason Codes

End of Comment

| | | | | | |
|---|-----|-------|---|---------------------------|---|
| 0 | (0) | X'33' | 0 | STRC_NORSNUNEXPECTFAILURE | "51" Unexpected failure SDRSN: SDRSTRLE |
| 0 | (0) | X'34' | 0 | STRC_NORSNSTORNOTAVAIL | "52" Storage not available to process the dump of a structure SDRSN: SDRSTRLE |
| 0 | (0) | X'35' | 0 | STRC_NORSNSTRNOTAVAIL | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|----------------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | X'36' | 0 | STRC_NORSNFACILNOTAVAIL | "53" Structure not available SDRSN: SDRSTRSF |
| 0 | (0) | X'37' | 0 | STRC_NORSNDUMPTBLNOTAVAIL | "54" Facility not available SDRSN: SDRSTRFF |
| 0 | (0) | X'38' | 0 | STRC_NORSNATZERO | "55" Structure dump table not available SDRSN: SDRSTRPS |
| 0 | (0) | X'39' | 0 | STRC_NORSNLOSSSERL | "56" Structure user set accesstime to zero SDRSN: SDRSTRRS |
| 0 | (0) | X'3A' | 0 | STRC_NORSNRECENTERED | "57" Loss of serialization SDRSN: SDRSTRRS |
| 0 | (0) | X'3B' | 0 | STRC_NORSNNODUMPSPACE | "58" Recovery routine entered SDRSN: SDRSTRRC |
| 0 | (0) | X'3C' | 0 | STRC_NORSNUSERERROR | "59" No facility dump space SDRSN: SDRSTRNS |
| 0 | (0) | X'3D' | 0 | STRC_NORSNLOCKTYPE | "60" Possible user error in STRLIST parameter list: 1) Structure does not exist in policy 2) Structure type is not compatible with range options SDRSN: SDRSTRLU |
| 0 | (0) | X'3E' | 0 | STRC_NORSNSTRALREADYDUMPED | "61" Structure is a Lock Structure which cannot be dumped SDRSN: SDRSTRLU |
| 0 | (0) | X'3F' | 0 | STRC_NORSNREADPARMERROR | "62" Structure was already dumped SDRSN: SDRSTRLU |
| 0 | (0) | X'40' | 0 | STRC_NORSNNOFREEDUMPSPACE | "63" Strcutre parameters were unavailable SDRSN: SDRSTRLE |
| | | | | | "64" No free facility dump space SDRSN: SDRSTRNS |

IXLYSTRC Cross Reference

| Name | Hex Offset | Hex Value |
|------------------------------|------------|-----------|
| STRC_NORSNATZERO | 0 | 38 |
| STRC_NORSNDUMPTBLNOTAVAIL | 0 | 37 |
| STRC_NORSNFACILNOTAVAIL | 0 | 36 |
| STRC_NORSNLOCKTYPE | 0 | 3D |
| STRC_NORSNLOSSSERL | 0 | 39 |
| STRC_NORSNNODUMPSPACE | 0 | 3B |
| STRC_NORSNNOFREEDUMPSPACE | 0 | 40 |
| STRC_NORSNREADPARMERROR | 0 | 3F |
| STRC_NORSNRECENTERED | 0 | 3A |
| STRC_NORSNSTORNOTAVAIL | 0 | 34 |
| STRC_NORSNSTRALREADYDUMPED | 0 | 3E |
| STRC_NORSNSTRNOTAVAIL | 0 | 35 |
| STRC_NORSNUNEXPECTFAILURE | 0 | 33 |
| STRC_NORSNUSERERROR | 0 | 3C |
| STRC_PARTRSNNDUMPTBLFULL | 0 | 6 |
| STRC_PARTRSNNDUMPTBLNOTAVAIL | 0 | 5 |

| Name | Hex Offset | Hex Value |
|-----------------------------|------------|-----------|
| STRC_PARTRSNFACILNOTAVAIL | 0 | 4 |
| STRC_PARTRSNLOSSSERL | 0 | 7 |
| STRC_PARTRSNRECENTERED | 0 | 9 |
| STRC_PARTRSNSOMEDATANOTSERL | 0 | 8 |
| STRC_PARTRSNSTORNOTAVAIL | 0 | 2 |
| STRC_PARTRSNSTRDUMPPARTIAL | 0 | A |
| STRC_PARTRSNSTRNOTAVAIL | 0 | 3 |
| STRC_PARTRSNUNEXPECTFAILURE | 0 | 1 |

IXLYWOB Programming Interface information

Programming Interface information

IXLYWOB

End of Programming Interface information

IXLYWOB Heading Information

Common Name: Write Operation Block
Macro ID: IXLYWOB
DSECT Name: WOB
Owning Component: Cross System Extended Services (SCIXL)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: User specified
 Key: User specified
 Residency: User specified
Size: 256 bytes
 WOB -- X'0100' bytes
Created by: Storage area created by IXLCACHE invoker.
Pointed to by: BUFFER Parameter on IXLCACHE invocation.
Serialization: See BUFFER parameter requirements on the IXLCACHE interface description.
Function: Maps the information needed to identify an individual cache entry to be written via the IXLCACHE REQUEST=WRITE_DATALIST.
 The storage area(s) indicated by BUFFER on an IXLCACHE REQUEST=WRITE_DATALIST contain an input array of elements. Each element may be mapped by the WOB, and contains the information needed for writing entries to a cache structure.

IXLYWOB Map

| Offsets | | | | | |
|---------|------|------------|-----|-----------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | WOB | Write Operation Block |
| 0 | (0) | CHARACTER | 21 | | Reserved |
| 21 | (15) | SIGNED | 1 | WOB_STGCLASS | Storage class - use this field to assign a storage class to the data item being written. Any previous assignment is updated to the new specification |
| 22 | (16) | SIGNED | 2 | WOB_COCLASS | Castout class - use this field to assign a cast-out class to the data item being written. Any previous assignment is updated to the new specification. This applies when the change control indicator is set |
| 24 | (18) | CHARACTER | 8 | | Reserved |
| 32 | (20) | CHARACTER | 16 | WOB_NAME | Entry name |
| 48 | (30) | CHARACTER | 16 | WOB_OLDNAME | Old name - use this field to specify the name of the data item for which your interest should be deregistered |
| 64 | (40) | SIGNED | 4 | WOB_VECTORINDEX | Local Cache vector index - contains the index into the local cache vector for ConToken for the entry specified by WOB_Name. The vector entry identified by this number will be used by cache services to indicate both your interest in the data item and the validity of the copy of the data item in your local cache buffer. This field is required when the suppress registration bit is not set or when oldname is specified. |
| 68 | (44) | CHARACTER | 4 | | Reserved |

| Offsets | | | | | |
|---------|------|------------------------|-----|----------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 72 | (48) | CHARACTER | 8 | WOB_UDF | User Data field - use this field to specify user-defined information to be written to the directory entry for the data item specified by WOB_Name. The information is only written when the WOB_CHGC indicator is set indicating changed data is to be written to the structure and one of the following is true: There is no entry data in the structure for WOB_Name or there is unchanged entry data in the structure for WOB_Name. If the WOB_CHGC indicator is not set, the user data field will be ignored |
| 80 | (50) | BITSTRING 1... | 1 | WOB_FLAGS1 (0) WOB_CHGC | Flag byte "X'80" Change control bit - use this field to specify whether changed data is to be written to an entry in the cache structure. 1 ==> the data to be written is changed. The changed data will be assigned to the specified cast-out class (WOB_CCL) superseding any previously specified cast-out class for the data. With the exception of your connection, all users with registered interest in the data will have their interest deregistered such that their locally cached copies of the data are invalidated. 0 ==> the data is written unchanged. The cached copy is the same as the permanent storage copy. |
| | | .1... | | WOB_NRC | "X'40" Name replacement control bit - 1 ==> Any registered interest for the specified local cache vector index and the entry specified by WOB_OldName in this write operation block will be deregistered. 0 ==> No deregistration of interest for the entry specified by WOB_OldName will be performed. |
| | | ...11 | | WOB_CP | "X'30" Castout parity bits - value with which to update the directory entry parity. The parity bits are only updated when the WOB_CHGC indicator is set indicating changed data is to be written to the structure. If the WOB_CHGC indicator is not set, the parity bits will be ignored |
| | | 1... | | WOB_GETCOLOCK | "X'08" Get Castout lock control bit - 1 ==> The cast-out lock is obtained 0 ==> The cast-out lock is not obtained. The cast-out lock is only obtained when the WOB_CHGC indicator is not set indicating that unchanged data is being written. If the WOB_CHGC indicator is set and the WOB_GetCOLock is set, the data will not be written, the cast-out lock will not be obtained and the index of the failing WOB is placed in the ANSAREA. None of the specified WOBs will be processed, meaning processing of the entire command was suppressed. |
| | |1.. | | WOB_CROSSINVAL | "X'04" Cross-invalidate control bit - use this value to specify whether cross- invalidate processing should be performed when writing unchanged data. 1 ==> Cross-invalidate processing is performed 0 ==> Cross-invalidate processing is not performed |
| 81 | (51) | SIGNED | 1 | WOB_PROCESSID | Castout process ID - use this field to specify a user defined process identifier to be placed in the cast-out lock along with the connection identifier. This field is only used when WOB_GetCOLock is set. |
| 82 | (52) | CHARACTER | 1 | | Reserved |
| 83 | (53) | SIGNED | 1 | WOB_ELENUM | Elemnum - use this field to specify the number of elements to be allocated to the data entry. Valid values can be in the range of 0 to 255 where 0 is valid only when WOB_CHGC is 0. The value for ElemNum must match the size of the data area in the data block corresponding to WOB being processed |
| 84 | (54) | CHARACTER | 4 | | Reserved |

IXLYWOB Map

| Offsets | | | | | |
|---------|-------|------------------------|-----|---------------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 88 | (58) | CHARACTER | 8 | WOB_VERSCOMP | Comparative version number - use this field to specify a version number to be compared to the version number of the entry designated by WOB_Name. If the condition specified by WOB_VersCompType is not met, then the request is terminated. WOB_VersComp is needed to ensure that updates to the version number via WOB_VersUpdate are not processed multiple times as a result of internal request redrive logic affecting this request |
| 96 | (60) | CHARACTER | 8 | WOB_NEWVERS | Version number - use this field to specify the value that is to be assigned to the entry version number |
| 104 | (68) | BITSTRING 1... | 1 | WOB_FLAGS2 (0) WOB_ASC | Flag byte "X'80" Assignment Suppression control - use this field to specify whether a directory entry will be assigned for WOB_Name if one does not currently exist. 1 ==> No directory entry will be assigned 0 ==> A directory entry will be assigned |
| | | .1.. | | WOB_SREG | "X'40" Suppress registration - use this field to specify whether the request should register connection interest in the entry. 1 ==> No connection interest will be registered. 0 ==> Connection interest registration will be performed. |
| | | 1... | | WOB_VERSCOMPTYPE | "X'08" Version comparison request type - use this field to specify how the structure entry version number comparison is to be performed. 1 ==> LessOrEqual - the version number for the structure entry must be less than or equal to the value specified for WOB_VersComp. 0 ==> Equal - the version number for the structure entry must be equal to the value specified for WOB_VersComp. |
| | |1.. | | WOB_VERSCOMPVALID | "X'04" Indicates whether or not the VersComp field should be used to perform entry version number comparison using the version comparison request type in WOB_VersCompType. 1 ==> The WOB_VersComp is valid 0 ==> The WOB_VersComp is invalid |
| | |11 | | WOB_VERSUPDATE | "X'03" Version request type - use this field to specify how the entry version number will be updated or, for those cases where an entry is created, initialized. 00 ==> None - the version number is not updated. On a request that causes an entry to be created, the version number is set to contain all binary zeros. 10 ==> Inc - the version number will be incremented. On a request that causes an entry to be created, the version number for the created entry is set to contain all binary zeros except for the low order bit, which is set to one. 01 ==> Dec - the version number will be decremented. On a request that causes an entry to be created, the version number for the created entry is set to contain all binary ones. 11 ==> Set - the version number will be set to the value specified by WOB_NewVers, including the case where an entry is created. |
| 105 | (69) | CHARACTER | 87 | | Reserved |
| 192 | (C0) | CHARACTER | 64 | WOB_AA | Adjunct area - This area will be ignored if the structure does not support adjunct data |
| 256 | (100) | CHARACTER | 1 | WOB_END (0) | End of WOB |
|  |  | .... .... |  | WOB_VERSUPDATE_TYPE_NONE | "B'00000000" |
| | |1 | | WOB_VERSUPDATE_TYPE_DEC | "B'00000001" |
| | |1. | | WOB_VERSUPDATE_TYPE_INC | "B'00000010" |
| | |11 | | WOB_VERSUPDATE_TYPE_SET | "B'00000011" |
| 256 | (100) | X'100' | 0 | WOB_LEN | "*-WOB" |

IXLYWOB Cross Reference

| Name | Hex Offset | Hex Value |
|--------------------------|---------------|--------------|
| WOB | 0 | |
| WOB_AA | C0 | |
| WOB_ASC | 68 | 80 |
| WOB_CHGC | 50 | 80 |
| WOB_COCLASS | 16 | |
| WOB_CP | 50 | 30 |
| WOB_CROSSINVAL | | |
| | 50 | 4 |
| WOB_ELEMNUM | 53 | |
| WOB_END | 100 | |
| WOB_FLAGS1 | 50 | |
| WOB_FLAGS2 | 68 | |
| WOB_GETCOLOCK | | |
| | 50 | 8 |
| WOB_LEN | 100 | 100 |
| WOB_NAME | 20 | |
| WOB_NEWVERS | 60 | |
| WOB_NRC | 50 | 40 |
| WOB_OLDNAME | 30 | |
| WOB_PROCESSID | | |
| | 51 | |
| WOB_SREG | 68 | 40 |
| WOB_STGCLASS | 15 | |
| WOB_UDF | 48 | |
| WOB_VECTORINDEX | | |
| | 40 | |
| WOB_VERSCOMP | 58 | |
| WOB_VERSCOMPTYPE | | |
| | 68 | 8 |
| WOB_VERSCOMPVALID | | |
| | 68 | 4 |
| WOB_VERSUPDATE | | |
| | 68 | 3 |
| WOB_VERSUPDATE_TYPE_DEC | | |
| | 100 | 1 |
| WOB_VERSUPDATE_TYPE_INC | | |
| | 100 | 2 |
| WOB_VERSUPDATE_TYPE_NONE | | |
| | 100 | 0 |
| WOB_VERSUPDATE_TYPE_SET | | |
| | 100 | 3 |

IXLYWORB Programming Interface information

Programming Interface information

IXLYWORB

End of Programming Interface information

IXLYWORB Heading Information

Common Name: Write-Operation Response Block
Macro ID: IXLYWORB
DSECT Name: WORB
Owning Component: Cross System Extended Services (SCIXL)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: User specified
 Key: User specified
 Residency: User specified
Size: 192 bytes
 WORB -- X'00C0' bytes
Created by: - Storage area created by IXLCACHE invoker
 - WORB data created by IXLCACHE service routine
Pointed to by: WORBAREA parameter on IXLCACHE
Serialization: See WORBAREA parameter requirements on the IXLCACHE interface description.
Function: The WORB maps the information returned when the IXLCACHE macro is issued for a WRITE_DATALIST request.

IXLYWORB Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | WORB | Write Operation Response Block |
| 0 | (0) | CHARACTER | 192 | WORBARRAYCHAR (0) | Entire WORB area |
| 0 | (0) | CHARACTER | 12 | WORBARRAY (0) | Array of WORB entries |
| 0 | (0) | SIGNED | 4 | WORB_COCOUNT | Total number of data elements assigned to the castout class to which data was just written for the corresponding WOB |
| 4 | (4) | SIGNED | 4 | WORB_TOTCHANGED | The total number of entries assigned to the storage class to which data was just written for the corresponding WOB that contain changed or locked-for-cast-out subsystem data. |
| 8 | (8) | SIGNED | 4 | WORB_INVLCVINUM | Invalidated local cache vector index number. This represents the local cache vector index that was invalidated because interest for the associated item was re-registered using a different vector index. This field is only valid when the bit position corresponding to the WORB being processed in CAAInvLcviVector is set to one. |
| 12 | (C) | CHARACTER | 1 | WORB_END (0) | End of WORB |
| 192 | (C0) | X'C0' | 0 | WORB_LEN | **-WORB" |

IXLZSTRB Programming Interface information

Programming Interface information

IXLZSTRB

End of Programming Interface information

IXLZSTRB Heading Information

| | |
|----------------------------|---|
| Common Name: | IXLZSTR Macro Service ANSAREA Mappings |
| Macro ID: | IXLZSTRB |
| DSECT Name: | StrBHeader StrBStrSummary StrBSummary StrBStrDetail StrBDetail StrBEMCDetail StrBEntry |
| Owning Component: | Cross System Extended Services (SCIXL) |
| Eye-Catcher ID: | None |
| Storage Attributes: | Subpool: User Defined Key: User Defined Residency: User Defined |
| Size: | STRBHEADER -- X'0088' bytes STRBSTRSUMMARY -- X'0068' bytes STRBSUMMARY -- X'000C' bytes STRBSTRDETAIL -- X'003C' bytes STRBDETAIL -- X'0024' bytes STRBEMCDETAIL -- X'0020' bytes STRBENTRY -- X'0038' bytes |
| Created by: | The IXLZSTR CF Structure Data Access Service in the user defined ANSAREA |
| Pointed to by: | User |
| Serialization: | No requirement |
| Function: | <p>This macro maps the ANSAREA data that was requested on the IXLZSTR macro and provides constants to interpret any return and reason codes issued. This macro will map the contents of the ANSAREA for all IXLZSTR requests, with the exception of the user control and lock index requests. In the case where the user control information is returned from the IXLZSTR service, the DLccb mapping found in IXLYDDIB will map the answer area entries if the structure requested is a cache structure or the DLucb mapping found in IXLYDDIB will map the answer area entries if the structure is a list structure. In the case where lock table entries are requested, the DLte mapping found in IXLYDDIB will map the answer area entries.</p> <p>NOTE: To determine the length of each individual StrBEntry entry, perform the following calculation: $\text{StrBTableEntryLen} + \text{StrBEntryAdjLen} + \text{StrBEntryEDataLen} + \text{StrBEntryCntlLen}$ This calculation will always give the correct length. The reason this should be done for each individual StrBEntr is that there may be times when some or all of the entries may not contain adjunct data or entry data, even though it was requested. By performing this calculation, the user is insured that movement to the next entry in the ANSAREA will be correct.</p> <p>NOTE: To interpret the dump reason code, include the IXLYSTRC mapping in your program.</p> |

IXLZSTRB Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|---------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | STRBHEADER | Mapping for the header section of the answer area |
| 0 | (0) | SIGNED | 4 | STRBNUMTABLEENTRIES | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------------------|--|
| Dec | Hex | | | | |
| 4 | (4) | SIGNED | 4 | STRBTABLEENTRYLEN | Number of table entries Length of the table entry. For table entries that point to other areas of the answer area, i.e. control information, the length of the area that is pointed to is included in the table entry length NOTE - If the ENTRYDATA keyword is specified on the IXLZSTR macro, this field will not include the length of the entry data in the total length. The reason for this is that two different entries in the answer area could have two different entrydata lengths, thus invalidating this field. To obtain the length of the entrydata in the answer area, see StrbEntryEDataLen in the StrbEntry entry. If the ADJUNCT keyword is specified on the IXLZSTR macro, this field will not include the length of the adjunct data. The reason for this is that the adjunct data may be requested, but not in the dump. To obtain the length of the adjunct data in the ansert area, see STRbEntryAdjLen in the StrbEntry |
| 8 | (8) | ADDRESS | 4 | STRBFIRSTTABLEENTRY@ | Pointer to the first table entry in the answer area |
| 12 | (C) | SIGNED | 4 | STRBTABLEENTRYTYPE | Type of entries that are mapped in the answer area |
| 16 | (10) | CHARACTER | 104 | STRBSTRINFO | Summary information about the structure that was specified on the IXLZSTR request. This area will not be filled in when the request is TYPE(STRUCTURE) STRLEVEL(SUMMARY) request. This area can be mapped by the StrBStrSummary mapping |
| 120 | (78) | SIGNED | 4 | STRBSTARTRANGE | If the StrbPosRange bit is off, this variable will hold the start of a range of CLASS, LISTNUM, LOCKENTRIES, USERCNTLS, EMCONTROLS, or EVENTQS object values specified on the IXLZSTR macro. If the StrbPosRange bit is on, this variable will hold the start of a position range within a requested CLASS or LISTNUM value. This value can be found in StrbEntryValue NOTE - This field will only be valid if the TYPE parameter on the IXLZSTR macro is CLASS, LISTNUM, LOCKENTRIES, USERCNTLS, EMCONTROLS, or EVENTQS and the StrBHeaderAll bit is off |
| 124 | (7C) | SIGNED | 4 | STRBENDRANGE | If the StrbPosRange bit is off, this variable will hold the end of a range of CLASS, LISTNUM, LOCKENTRIES, USERCNTLS, EMCONTROLS, or EVENTQS object values specified on the IXLZSTR macro. If the StrbPosRange bit is on, this variable will hold the end of a position range within a requested CLASS or LISTNUM value. This value can be found in StrbEntryValue NOTE - This field will only be valid if the TYPE parameter on the IXLZSTR macro is CLASS, LISTNUM, LOCKENTRIES, USERCNTLS, EMCONTROLS, or EVENTQS and the StrBHeaderAll bit is off |
| 128 | (80) | SIGNED | 4 | STRBHEADEROBJECTVALUE | Value of the object the entries were attempted to be retrieved from. See StrBHeaderFlags and StrBHeaderFlags2 to determine whether this value is a storage class, castout class, list number, or connection id. NOTE: This field is only valid if the request was a TYPE(CLASS) CLASSLEVEL(ENTRY) request, a TYPE(LISTNUM) LISTNUMLEVEL(ENTRY) request, a TYPE(EMCONTROLS) EMCLEVEL(EMC) request, or a TYPE(EVENTQS) EQLEVEL(EMC) request |
| 132 | (84) | BITSTRING | 1 | STRBHEADERFLAGS (0) | Flag Byte |
| | | 1... .. | | STRBHEADERALL | |

IXLZSTRB Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|--|------|------------|-----|-------------------------|---|
| Dec | Hex | | | | |
| | | .1.. | | STRBPOSRANGE | "X'80" 0 => Indicates a range was specified 1 => Indicates that all of a class, listnum, usercntls, lockentries, emcontrols or eventqs was specified. NOTE - This bit will only be valid if the TYPE parameter on the IXLZSTR macro is CLASS, LISTNUM, LOCKENTRIES, USERCNTLS, EMCONTROLS, or EVENTQS |
| | | ..1. | | STRBTAILORDPROB | "X'40" 0 => Indicates that SUMMARY or DETAIL level information was requested or STARTVAL and or ENDVAL were specified or defaulted to on the IXLZSTR macro. StrBStartRange, StrBEndRange, and StrBHeaderAll bits are referencing ranges of CLASS (when StrBObjRngCoc or StrBObjRngStg are set), LISTNUM (when StrBObjRngLnm is set), LOCKENTRIES, USERCNTLS, EMCONTROLS (when StrBObjRngEmc is set) or EVENTQS (when StrBObjRncEqc is set). 1 => Indicates that ENTRY level, or ENTRY level with STARTPOS and optionally ENDPOS, or EMC level information, was requested for the object value specified in StrBHeaderObjectValue. For ENTRY level information, StrBStartRange, StrBEndRange, and StrBHeaderAll bits are referencing ranges of entry positions within a CLASS (when StrBHeaderCoc or StrBHeaderStg is set) or a LISTNUM (when StrBHeaderLnm is set). For EMC level information (StrBHeaderEmc or StrBHeaderEqc is set), StrBHeaderAll will be set and StrBStartRange and StrBEndRange do not apply. |
| Comment | | | | | "X'20" If ENTRYKEY and ORDER(TAIL) were specified on the IXLZSTR macro and the dump of the entries was partial, this bit will be set to indicate that the dump of the entrykey may be partial because the last entry dumped for this object had the requested entrykey |
| <p>The following 3 bits only apply for TYPE(CLASS) CLASSLEVEL(ENTRY) requests and for TYPE(LISTNUM) LISTNUMLEVEL(ENTRY) requests. The object value these bits identify is located in the field StrBHeaderObjectValue</p> | | | | | |
| End of Comment | | | | | |
| | | ...1 | | STRBHEADERCOC | "X'10" 0 => This object value in the StrBHeaderObjectValue field is not a castout class 1 => This object value in the StrBHeaderObjectValue field is a castout class |
| | | 1... | | STRBHEADERSTG | "X'08" 0 => This object value in the StrBHeaderObjectValue field is not a storage class 1 => This object value in the StrBHeaderObjectValue field is a storage class |
| | |1.. | | STRBHEADERLNM | "X'04" 0 => This object value in the StrBHeaderObjectValue field is not a list number 1 => This object value in the StrBHeaderObjectValue field is a list number |
| | |1. | | STRBTAILPOSRANGE | "X'02" 0 => The position range specified is going from head to tail order 1 => The position range specified is going from tail to head order NOTE: This bit is valid only if the StrBPosRange bit is set |
| 133 | (85) | BITSTRING | 1 | STRBHEADERFLAGS2 (0) | Flag Byte2 |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---|------|------------|-----|--------------------------|---|
| Dec | Hex | | | | |
| Comment | | | | | |
| The following 3 bits only apply for TYPE(CLASS) CLASSLEVEL(SUMMARY) or CLASSLEVEL(DETAIL requests and for TYPE(LISTNUM) LISTNUMLEVEL(SUMMARY) or LISTNUMLEVEL(DETAIL) requests. The object ranges these bits identify are located in StrBHeaderAll if all was requested or in StrBStartRange and StrBEndRange if a range was requested | | | | | |
| End of Comment | | | | | |
| | | 1... .. | | STRBOBJRNGCOC | "X'80" 0 => The range requested is not a castout class 1 => The range requested is a castout class |
| | | .1.. .. | | STRBOBJRNGSTG | "X'40" 0 => The range requested is not a storage class 1 => The range requested is a storage class |
| | | ..1. | | STRBOBJRNLNM | "X'20" 0 => The range requested is not a list number 1 => The range requested is a list number |
| Comment | | | | | |
| The following 2 bits only apply for TYPE(EMCONTROLS) EMCLEVEL(EMC) or TYPE(EVENTQS) EQLEVEL(EMC) requests. The object value these bits identify is located in the field StrBHeaderObjectValue | | | | | |
| End of Comment | | | | | |
| | | ...1 | | STRBHEADEREMC | "X'10" 0 => The object value in the StrBHeaderObjectValue field is not a list number 1 => This object value in the StrBHeaderObjectValue field is a list number |
| | | 1... | | STRBHEADEREQC | "X'08" 0 => The object value in the StrBHeaderObjectValue field is not a connection id 1 => This object value in the StrBHeaderObjectValue field is a connection id |
| Comment | | | | | |
| The following 2 bits only apply for TYPE(EMCONTROLS) EMCLEVEL(SUMMARY) or TYPE(EVENTQS) EQLEVEL(DETAIL) requests. The object ranges these bits identify are located in StrBHeaderAll if all was requested or in StrBStartRange and StrBEndRange if a range was requested | | | | | |
| End of Comment | | | | | |
| | |1.. | | STRBOBJRNGEMC | "X'04" 0 => The range requested is not a list number 1 => The range requested is a list number |
| | |1. | | STRBOBJRNGEQC | "X'02" 0 => The range requested is not a connection id 1 => The range requested is a connection id |
| 134 | (86) | CHARACTER | 2 | | |
| Comment | | | | | |
| Constants for the table entry These constants will be used in StrBTableEntryType | | | | | |
| End of Comment | | | | | |
| 134 | (86) | X'1' | 0 | STRBTABLEENTRYSTRSUMMARY | |

IXLZSTRB Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-------------------------|---|
| Dec | Hex | | | | |
| 134 | (86) | X'2' | 0 | STRBTABLEENTRYSTRDETAIL | "1" TYPE=STRUCTURE STRLEVEL=SUMMARY entries are in the answer area |
| 134 | (86) | X'3' | 0 | STRBTABLEENTRYSUMMARY | "2" TYPE=STRUCTURE STRLEVEL=DETAIL entries are in the answer area |
| 134 | (86) | X'4' | 0 | STRBTABLEENTRYDETAIL | "3" TYPE=CLASS CLASSLEVEL=SUMMARY or TYPE=LISTNUM LISTNUMLEVEL=SUMMARY or TYPE=EMCONTROLS EMCLEVEL=SUMMARY entries are in the answer area |
| 134 | (86) | X'5' | 0 | STRBTABLEENTRYENTRY | "4" TYPE=CLASS CLASSLEVEL=DETAIL or TYPE=LISTNUM LISTNUMLEVEL=DETAIL or TYPE=EVENTQS EMCLEVEL=DETAIL entries are in the answer area |
| 134 | (86) | X'6' | 0 | STRBTABLEENTRYLOCK | "5" TYPE=CLASS CLASSLEVEL=ENTRY, TYPE=LISTNUM LISTNUMLEVEL=ENTRY, or TYPE=ENTRY entries are in the answer area |
| 134 | (86) | X'7' | 0 | STRBTABLEENTRYDLUCB | "6" TYPE=LOCKENTRIES entries are in the answer area - Use the DLte mapping in IXLYDDIB to map the entries |
| 134 | (86) | X'8' | 0 | STRBTABLEENTRYDLCCB | "7" TYPE=USERCNTLS entries are in the answer area and the structure requested is a list structure - Use the DLucb mapping in IXLYDDIB to map the entries |
| 134 | (86) | X'9' | 0 | STRBTABLEENTRYEMCDetail | "8" TYPE=USERCNTLS entries are in the answer area and the structure requested is a cache structure - Use the DLccb mapping in IXLYDDIB to map the entries |
| 134 | (86) | X'88' | 0 | STRBHEADER_LEN | "9" TYPE=EMCONTROLS EMCLEVEL=EMC or TYPE=EVENTQS EMCLEVEL=EMC entries are in the answer area "**-STRBHEADER" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-----------------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | STRBSTRSUMMARY | |
| 0 | (0) | CHARACTER | 16 | STRBSTRSUMMARYNAME | Structure name |
| 16 | (10) | SIGNED | 1 | STRBSTRSUMMARYTYPE | Structure type |
| 17 | (11) | CHARACTER | 1 | | reserved |
| 18 | (12) | SIGNED | 2 | STRBSTRSUMMARYSTRDUMPID | Structure Dump ID |
| 20 | (14) | SIGNED | 4 | STRBSTRSUMMARYDUMPRSN | Reason code, if dump status is other than complete - the dump reason codes are defined in the IXLYSTRC mapping |
| 24 | (18) | CHARACTER | 32 | STRBSTRSUMMARYHDWND | Facility Node descriptor |
| 56 | (38) | CHARACTER | 8 | STRBSTRSUMMARYCFNAME | Facility Name |
| 64 | (40) | CHARACTER | 32 | STRBSTRSUMMARYINCIDENTTOKEN | Incident token |
| 96 | (60) | BITSTRING | 1 | STRBSTRSUMMARYFLAGS | Flag Byte |
| | | 1... .. | | STRBSTRSUMMARYFLGCOMPLETE | "X'80" Indicates that the dump of the lock table or the user controls was complete NOTE: This field only applies when a user requests LOCKENTRIES or USERCNTLS information |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------------------------|---|
| Dec | Hex | | | | |
| | | .1.. | | STRBSTRSUMMARYSTRINREBLD | "X'40" Indicates that the the structure is in the process of rebuild |
| | | ..1. | | STRBSTRSUMMARYREBLDOLDSTR | "X'20" Indicates that the structure information pertains to the OLD structure NOTE: Bit is only valid if the StrBStrSummaryStrInRebld is set |
| | | ...1 | | STRBSTRSUMMARYREBLDNEWSTR | "X'10" Indicates that the structure information pertains to the NEW structure NOTE: Bit is only valid if the StrBStrSummaryStrInRebld is set |
| | | 1... | | STRBSTRSUMMARYREBLDDUPLEXSTR | "X'08" ON indicates the structure rebuild is a duplexing rebuild. OFF indicates the structure rebuild is a normal rebuild. NOTE: Bit is only valid if the StrBStrSummaryStrInRebld is set |
| | |1.. | | STRBSTRSUMMARYREBLDMETHODSTR | "X'04" ON indicates the structure rebuild is system managed. OFF indicates the structure rebuild is user managed. NOTE: Bit is only valid if the StrBStrSummaryStrInRebld is set |
| 97 | (61) | CHARACTER | 3 | | Reserved |
| 100 | (64) | SIGNED | 4 | STRBSTRSUMMARYCFLEVEL | Coupling facility operational level of facility in which structure is allocated |
| 100 | (64) | X'68' | 0 | STRBSTRSUMMARY_LEN | ** -STRBSTRSUMMARY" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|----------------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | STRBSUMMARY | |
| 0 | (0) | SIGNED | 4 | STRBSUMMARYVALUE | Value of the CLASS or LISTNUM or EMCONTROLS. See StrbSummaryFlags to determine if this value is a storage class, castout class, or list number value |
| 4 | (4) | BITSTRING | 1 | STRBSUMMARYFLAGS | |
| | | 1... | | (0) STRBSUMMARYCOMPLETE | "X'80" Indicates that dump is complete for all the entries in the CLASS or LISTNUM or all the event monitor controls (EMCONTROLS) associated with the list number. |
| | | .1.. | | STRBSUMMARYCOC | "X'40" 0 => This is not a castout class entry 1 => This is a castout class entry |
| | | ..1. | | STRBSUMMARYSTG | "X'20" 0 => This is not a storage class entry 1 => This is a storage class entry |
| | | ...1 | | STRBSUMMARYLNM | "X'10" 0 => This is not a list number entry 1 => This is a list number entry |
| | | 1... | | STRBSUMMARYEMC | "X'08" 0 => This is not an event monitor controls entry. 1 => This is an event monitor controls (EMCONTROLS) entry |
| 5 | (5) | CHARACTER | 3 | | reserved |
| 8 | (8) | CHARACTER | 4 | | reserved for alignment |
| 8 | (8) | X'C' | 0 | STRBSUMMARY_LEN | ** -STRBSUMMARY" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|--------------------|-------------|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | STRBSTRDETAIL | |
| 0 | (0) | ADDRESS | 4 | STRBSTRDETAILCNTL@ | |

IXLZSTRB Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-----------------------------|--|
| Dec | Hex | | | | |
| | | | | | Pointer to the structure controls in the answer area. The controls can be mapped by the DCac mapping found in IXLYDCAC if the structure is a cache structure, or the controls can be mapped by the DLic mapping found in IXLYDLIC if the structure is a list structure |
| 4 | (4) | SIGNED | 4 | STRBSTRDETAILCNTLEN | Length of the structure controls |
| 8 | (8) | ADDRESS | 4 | STRBSTRDETAILARB@ | Pointer to the ARB in the answer area. The ARB can be mapped by the ARB mapping found in IHAARB. The length of the ARB is always one page. If the ARB is not present in the dump, this pointer will be zero |
| 12 | (C) | SIGNED | 4 | STRBSTRDETAILARBLEN | The length of the ARB |
| 16 | (10) | SIGNED | 4 | STRBSTRDETAILARBNUMRANGES | The number of ranges that are in the ARB. This number should be used to index through the ARB ranges |
| 20 | (14) | SIGNED | 4 | STRBSTRDETAILARBLASTRNGPROC | The index of the last range that was processed in the ARB |
| 24 | (18) | CHARACTER | 16 | STRBSTRDETAILCONNAME | name of connected user whose registry information was gathered |
| 40 | (28) | SIGNED | 2 | STRBSTRDETAILCONID | Connection ID |
| 42 | (2A) | BITSTRING | 1 | STRBSTRDETAILFLAGS | (0) |
| | | | | | Structure Detail Flags |
| | | 1... | | STRBSTRDETAILCONNOTFOUND | "X'80" Indicates that the conname or contoken specified for this structure could not be found in the policy when the structure was dumped |
| 43 | (2B) | CHARACTER | 1 | | Reserved |
| 44 | (2C) | ADDRESS | 4 | STRBSTRDETAILSCC@ | Pointer to the structure copy controls in the answer area. |
| 48 | (30) | SIGNED | 4 | STRBSTRDETAILSCCLEN | The length of the structure copy controls |
| 52 | (34) | ADDRESS | 4 | STRBSTRDETAILDUPCON@ | Pointer to the duplexing controls data in the answer area. |
| 56 | (38) | SIGNED | 4 | STRBSTRDETAILDUPCONLEN | The length of the duplexing controls |
| 56 | (38) | X'3C' | 0 | STRBSTRDETAIL_LEN | "*-STRBSTRDETAIL" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|----------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | STRBDETAIL | |
| 0 | (0) | SIGNED | 4 | STRBDETAILVALUE | Value of the CLASS, LISTNUM or EVENTQS. See StrbDetailFlags to determine if this value is a storage class, castout class, list number value or connection id. |
| 4 | (4) | SIGNED | 4 | STRBDETAILNUMENTRIES | Number of entries dumped for the CLASS, LISTNUM or EVENTQS. NOTE: If the STRBDETAILCOMPLETE bit is not set, this number will not be valid |
| 8 | (8) | BITSTRING | 1 | STRBDETAILFLAGS | (0) |
| | | 1... | | STRBDETAILCOMPLETE | "X'80" Indicates that all the entries were dumped for the CLASS, LISTNUM, or all of the event monitor controls were dumped for an event queue |
| | | .1.. | | STRBDETAILCOC | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-------------------|--|
| Dec | Hex | | | | |
| | | ..1. | | STRBDETAILSTG | "X'40" 0 => This is not a castout class entry 1 => This is a castout class entry |
| | | ...1 | | STRBDETAILLNM | "X'20" 0 => This is not a storage class entry 1 => This is a storage class entry |
| | | 1... | | STRBDETAILEQC | "X'10" 0 => This is not a list number entry 1 => This is a list number entry |
| 9 | (9) | CHARACTER | 3 | | "X'08" 0 => This is not an event queue (EVENTQS) entry 1 => This is an event queue (EVENTQS) entry |
| 12 | (C) | SIGNED | 4 | | reserved |
| 16 | (10) | ADDRESS | 4 | STRBDETAILCNTL@ | Reserved |
| | | | | | Pointer to the CLASS, LISTNUM or event queue controls found in the answer area. The controls can be mapped by the Dccc mapping found in IXLYDCCC if the controls are cast out class controls. The controls can be mapped by the Dsccl mapping found in IXLYDSCC if the controls are storage class controls. The controls can be mapped by the Dlc mapping found in IXLYDLC if the controls are list controls. The controls can be mapped by the Deqc mapping found in IXLYDEQC if the controls are event queue controls. |
| 20 | (14) | SIGNED | 4 | STRBDETAILCNTLLEN | Length of the controls |
| 24 | (18) | CHARACTER | 12 | | reserved for alignment |
| 24 | (18) | X'24' | 0 | STRBDETAIL_LEN | |
| | | | | | ** -STRBDETAIL " |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-------------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | STRBEMCDetail | |
| 0 | (0) | SIGNED | 4 | STRBEMCDetailVALUE | Value of the connection id or the list number associated with event monitor controls. See StrBEMCDetailFlags to determine if this value is a connection id or a list number value |
| 4 | (4) | SIGNED | 4 | STRBEMCDetailNUMENTRIES | Number of event monitor controls dumped for the connection id or the list number. If the StrBEMCDetailComplete bit is not set, this number will not be valid |
| 8 | (8) | BITSTRING | 1 | STRBEMCDetailFLAGS | |
| | | 1... | | (0) | |
| | | | | STRBEMCDetailCOMPLETE | "X'80" 1 indicates that all the event monitor controls were dumped for the connection id or list number |
| | | .1.. | | STRBEMCDetailEMC | "X'40" 0 => This is not an event monitor controls (EMCONTROLS) entry 1 => This is an event monitor controls (EMCONTROLS) entry |
| | | ..1. | | STRBEMCDetailEQC | "X'20" 0 => This is not an event queue (EVENTQS) entry 1 => This is an event queue (EVENTQS) entry |
| 9 | (9) | CHARACTER | 3 | | reserved |
| 12 | (C) | SIGNED | 4 | | Reserved |
| 16 | (10) | ADDRESS | 4 | STRBEMCDetailEMC@ | Pointer to event monitor controls in the answer area mapped by DEmc mapping found in IXLYDDIB |
| 20 | (14) | SIGNED | 4 | STRBEMCDetailEMCLEN | Length of the event monitor controls |
| 24 | (18) | CHARACTER | 8 | | reserved for alignment |
| 24 | (18) | X'20' | 0 | STRBEMCDetail_LEN | |
| | | | | | ** -STRBEMCDetail " |

IXLZSTRB Map

| Offsets | | | | | |
|---------|------|------------|-----|----------------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | STRBENTRY | |
| 0 | (0) | ADDRESS | 4 | STRBENTRYCNTL@ | Pointer to the entry control information in the answer area |
| 4 | (4) | SIGNED | 4 | STRBENTRYCNTLLEN | Length of the entry control information |
| 8 | (8) | ADDRESS | 4 | STRBENTRYEDATA@ | Pointer to the entry's entry data in the answer area NOTE: IF no entry data was returned, the pointer to the entry data in the answer area will be zero |
| 12 | (C) | SIGNED | 4 | STRBENTRYTOTALEDATALEN | Total length of entry data |
| 16 | (10) | SIGNED | 4 | STRBENTRYEDATALEN | Length of the entry data returned NOTE: If no entry data was returned, the length will be set to zero |
| 20 | (14) | SIGNED | 4 | STRBENTRYEDATALENLEFT2PROC | Length of entry data left to process to retrieve all of the entry data associated with this entry. This variable can be used to allocate a bigger answer area so that the remainder of this entry's entry data can be returned all at once before proceeding to the next entry, if one exists |
| 24 | (18) | ADDRESS | 4 | STRBENTRYADJ@ | Pointer to the entry's adjunct information in the answer area NOTE: IF no adjunct data was returned, the pointer to the adjunct data in the answer area will be zero |
| 28 | (1C) | SIGNED | 4 | STRBENTRYADJLEN | Length of the adjunct data NOTE: If no adjunct data was returned, the length will be set to zero |
| 32 | (20) | SIGNED | 4 | STRBENTRYPOSVALUE | Entry position of the entry in the class or listnum. If the StrBKeyPosValue is On, this is the entry position of the entry within the requested entrykey NOTE: If this is from a TYPE(ENTRY) request, the field is invalid |
| 36 | (24) | BITSTRING | 1 | STRBENTRYFLAGS | |
| | | 1... | | (0) | |
| | | | | STRBENTRYEDATASERIALIZED | "X'80" Indicates whether the entry data was dumped serialized |
| | | .1... | | STRBENTRYADJDSerialized | "X'40" Indicates whether the adjunct data was dumped serialized |
| | | ..1. | | STRBPARTENTRYDATA | "X'20" 0 => All of the entry data that could fit did make it out into the answer area 1 => All of the entry data was not able to be put into the answer area The reason for this is because there was an access error while retrieving the entry data. NOTE: this bit will only be valid if StrBEntryEDataReq is on |
| | | ...1 | | STRBENTRYEDATAREQ | "X'10" Indicates whether the entry data was requested to be returned on the IXLZSTR macro NOTE: Entry data may be partially returned due to insufficient space in the answer area or not returned due to failure to get the entry data written out to the dump data set. Please check the return code and reason codes from the IXLZSTR service and the fields in this mapping, StrBEntry, to check that state of the entrydata retrieval |
| | | 1... | | STRBENTRYADJDREQ | "X'08" Indicates whether the adjunct data was requested to be returned on the IXLZSTR macro NOTE: Adjunct data may not be returned due to a failure to get it written out to the dump data set. Please check the fields in this mapping, StrBEntry, to insure that the adjunct data was returned |
| 37 | (25) | BITSTRING | 1 | STRBENTRYFLAGS2 | |
| | | | | (0) | |
| | | | | | Flag Byte 2 - NOTE: If this is from a TYPE(ENTRY) request, the field is invalid |
| | | 1... | | STRBKEYPOSVALUE | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---|------|------------|-----|-----------------------|---|
| Dec | Hex | | | | |
| | | | | | "X'80'" 0 => Entry position found in the StrBEntryPosValue is the entry position in the total list of entries 1 => Entry position found in the StrBEntryPosValue is the entry position in the list of entries with the requested entrykey NOTE: To find the entrykey that was requested, map the DDil mapping on the pointer to the entry controls in this entry and look at the value of the DDilLstEntKey field |
| 38 | (26) | CHARACTER | 2 | | reserved for alignment |
| 40 | (28) | CHARACTER | 16 | | reserved for expansion |
| Comment | | | | | |
| Structure Type Constants | | | | | |
| End of Comment | | | | | |
| | |11 | | STRBSTRTYPELIST | "X'03'" List Structure - External |
| | |1.. | | STRBSTRTYPECACHE | "X'04'" Cache Structure - External |
| Comment | | | | | |
| Length constants for the mappings | | | | | |
| End of Comment | | | | | |
| 40 | (28) | X'88' | 0 | STRBHEADER_LEN | "136" Length of StrBHeader mapping |
| 40 | (28) | X'68' | 0 | STRBSTRSUMMARY_LEN | "104" Length of StrBStrSummary mapping |
| 40 | (28) | X'C' | 0 | STRBSUMMARY_LEN | "12" Length of StrBSummary mapping |
| 40 | (28) | X'3C' | 0 | STRBSTRDETAIL_LEN | "60" Length of StrBStrDetail mapping |
| 40 | (28) | X'24' | 0 | STRBDETAIL_LEN | "36" Length of StrBDetail mapping |
| 40 | (28) | X'20' | 0 | STRBEMCDetail_LEN | "32" Length of StrBEMCDetail mapping |
| 40 | (28) | X'38' | 0 | STRBENTRY_LEN | "56" Length of StrBEntry mapping |
| Comment | | | | | |
| Return Codes from the IXLZSTR Macro Service | | | | | |
| End of Comment | | | | | |
| 40 | (28) | X'0' | 0 | STRBRET_CODES_SUC | "0" Successful Completion - IXLZSTR returned all requested data |
| 40 | (28) | X'4' | 0 | STRBRET_CODE_MOREDATA | "4" Successful Completion - Additional data available but not returned |
| 40 | (28) | X'8' | 0 | STRBRET_CODE_NO_DATA | "8" No data returned in ANSAREA |
| 40 | (28) | X'C' | 0 | STRBRET_CODE_ENVERR | "12" Environmental Error |
| 40 | (28) | X'10' | 0 | STRBRET_CODE_FAIL | "16" Failure in IXLZSTR Processing |
| Comment | | | | | |
| Reason Codes from the IXLZSTR Macro Service for when the return code is StrBRetCodeSucc | | | | | |
| End of Comment | | | | | |

IXLZSTRB Map

| Offsets | | | | | |
|--|------|------------|-----|------------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 40 | (28) | X'0' | 0 | STRBRSNCODESUCC | "0" Successful Completion - IXLZSTR returned all requested data |
| <div> <div>Comment</div> <div>Reason Codes from the IXLZSTR Macro Service for when the return code is StrBRetCodeMoreData</div> <div>End of Comment</div> </div> | | | | | |
| 40 | (28) | X'4' | 0 | STRBRSNCODEANSANOTLGE | "4" ANSAREA was not large enough to contain the data to be returned by IXLZSTR. To retrieve the remainder of the data, invoke IXLZSTR again with the same keywords and the RESTOKEN as input to the macro |
| <div> <div>Comment</div> <div>Reason Codes from the IXLZSTR Macro Service for when the return code is StrBRetCodeNoData</div> <div>End of Comment</div> </div> | | | | | |
| 40 | (28) | X'4' | 0 | STRBRSNCODENOSTRNAME | "4" The STRNAME specified on the IXLZSTR macro does not appear in the dump |
| 40 | (28) | X'8' | 0 | STRBRSNCODENOSTRDUMPID | "8" The STRNAME specified on the IXLZSTR macro does appear in the dump, but the STRDUMPID does not appear in the dump |
| 40 | (28) | X'C' | 0 | STRBRSNCODENOFACDATA | "12" No coupling facility data appears in the dump |
| 40 | (28) | X'10' | 0 | STRBRSNCODENOTMINSTOR | "16" ANSAREA specified on the IXLZSTR macro does not meet the minimum storage requirement for the request |
| 40 | (28) | X'14' | 0 | STRBRSNCODENOATTRSTR | "20" The data does not appear in the dump because the attributes of the requested data does not match the attributes of the structure type |
| 40 | (28) | X'18' | 0 | STRBRSNCODEINVALIDRGE | "24" The range specification on the IXLZSTR macro is invalid. The starting value is greater than the ending value |
| <div> <div>Comment</div> <div>Reason Codes from the IXLZSTR Macro Service for when the return code is StrBRetCodeEnvErr</div> <div>End of Comment</div> </div> | | | | | |
| 40 | (28) | X'4' | 0 | STRBRSNCODENOSTOR | "4" Unable to obtain system storage |
| <div> <div>Comment</div> <div>Reason Codes from the IXLZSTR Macro Service for when the return code is StrBRetCodeFail</div> <div>End of Comment</div> </div> | | | | | |
| 40 | (28) | X'4' | 0 | STRBRSNCODENOREADS | "4" Some data could not be accessed in the dump data set |
| 40 | (28) | X'38' | 0 | STRBENTRY_LEN | ** -STRBENTRY" |

IXLZSTRB Cross Reference

| Name | Hex Offset | Hex Value |
|-------------------------|------------|-----------|
| STRBDETAIL | 0 | |
| STRBDETAIL_LEN | 18 | 24 |
| STRBDETAIL_LEN | 28 | 24 |
| STRBDETAILCNTL@ | 10 | |
| STRBDETAILCNTLLEN | 14 | |
| STRBDETAILCOC | 8 | 40 |
| STRBDETAILCOMPLETE | 8 | 80 |
| STRBDETAILEQC | 8 | 8 |
| STRBDETAILFLAGS | 8 | |
| STRBDETAILLNM | 8 | 10 |
| STRBDETAILNUMENTRIES | 4 | |
| STRBDETAILSTG | 8 | 20 |
| STRBDETAILVALUE | 0 | |
| STRBEMCDETAIL | 0 | |
| STRBEMCDETAIL_LEN | 18 | 20 |
| STRBEMCDETAIL_LEN | 28 | 20 |
| STRBEMCDETAILCOMPLETE | 8 | 80 |
| STRBEMCDETAILEMC | 8 | 40 |
| STRBEMCDETAILEMC@ | 10 | |
| STRBEMCDETAILEMCLEN | 14 | |
| STRBEMCDETAILEQC | 8 | 20 |
| STRBEMCDETAILFLAGS | 8 | |
| STRBEMCDETAILNUMENTRIES | 4 | |
| STRBEMCDETAILVALUE | 0 | |
| STRBENDRANGE | 7C | |
| STRBENTRY | 0 | |
| STRBENTRY_LEN | 28 | 38 |
| STRBENTRY_LEN | 28 | 38 |
| STRBENTRYADJ@ | 18 | |
| STRBENTRYADJDREQ | 24 | 8 |
| STRBENTRYADJDSerialized | 24 | 40 |
| STRBENTRYADJLEN | 1C | |
| STRBENTRYCNTL@ | 0 | |

| Name | Hex Offset | Hex Value |
|----------------------------|------------|-----------|
| STRBENTRYCNTLLEN | 4 | |
| STRBENTRYEDATA@ | 8 | |
| STRBENTRYEDATALEN | 10 | |
| STRBENTRYEDATALENLEFT2PROC | 14 | |
| STRBENTRYEDATAREQ | 24 | 10 |
| STRBENTRYEDATASERIALIZED | 24 | 80 |
| STRBENTRYFLAGS | 24 | |
| STRBENTRYFLAGS2 | 25 | |
| STRBENTRYPOSVALUE | 20 | |
| STRBENTRYTOTALEDATALEN | C | |
| STRBFIRSTTABLEENTRY@ | 8 | |
| STRBHEADER | 0 | |
| STRBHEADER_LEN | 86 | 88 |
| STRBHEADER_LEN | 28 | 88 |
| STRBHEADERALL | 84 | 80 |
| STRBHEADERCOC | 84 | 10 |
| STRBHEADEREMC | 85 | 10 |
| STRBHEADEREQC | 85 | 8 |
| STRBHEADERFLAGS | 84 | |
| STRBHEADERFLAGS2 | 85 | |
| STRBHEADERLNM | 84 | 4 |
| STRBHEADEROBJECTVALUE | 80 | |
| STRBHEADERSTG | 84 | 8 |
| STRBKEYPOSVALUE | 25 | 80 |
| STRBNUMTABLEENTRIES | 0 | |
| STRBOBJRNGCOC | 85 | 80 |
| STRBOBJRNGEMC | 85 | 4 |
| STRBOBJRNGEQC | 85 | 2 |
| STRBOBJRNGLNM | 85 | 20 |
| STRBOBJRNGSTG | 85 | 40 |
| STRBPARTENTRYDATA | 24 | 20 |
| STRBPOSRANGE | 84 | 40 |
| STRBRETCodeENVERR | | |

IXLZSTRB Cross Reference

| Name | Hex Offset | Hex Value |
|--------------------------|------------|-----------|
| STRBRETCODEFAIL | 28 | C |
| STRBRETCODEMOREDATA | 28 | 10 |
| STRBRETCODENODATA | 28 | 4 |
| STRBRETCODESUCC | 28 | 8 |
| STRBRNSCODEANSANOTLGE | 28 | 0 |
| STRBRNSCODEINVALIDRGE | 28 | 4 |
| STRBRNSCODENOATTRSTR | 28 | 18 |
| STRBRNSCODENOFACDATA | 28 | 14 |
| STRBRNSCODENOREADS | 28 | C |
| STRBRNSCODENOSTOR | 28 | 4 |
| STRBRNSCODENOSTRDUMPID | 28 | 4 |
| STRBRNSCODENOSTRNAME | 28 | 8 |
| STRBRNSCODENOTMINSTOR | 28 | 4 |
| STRBRNSCODESUCC | 28 | 10 |
| STRBSTARTRANGE | 28 | 0 |
| STRBSTRDETAIL | 78 | |
| STRBSTRDETAIL_LEN | 0 | |
| STRBSTRDETAIL_LEN | 38 | 3C |
| STRBSTRDETAILARB@ | 28 | 3C |
| STRBSTRDETAILARB@ | 8 | |
| STRBSTRDETAILARB@ | 14 | |
| STRBSTRDETAILARB@ | C | |
| STRBSTRDETAILARB@ | 10 | |
| STRBSTRDETAILCNTL@ | 0 | |
| STRBSTRDETAILCNTLLEN | 4 | |
| STRBSTRDETAILCONID | 28 | |
| STRBSTRDETAILCONNAME | 18 | |
| STRBSTRDETAILCONNOTFOUND | 2A | 80 |
| STRBSTRDETAILDUPCON@ | 34 | |
| STRBSTRDETAILDUPCONLEN | 38 | |
| STRBSTRDETAILFLAGS | 2A | |
| STRBSTRDETAILSCC@ | 2C | |
| STRBSTRDETAILSCCLEN | 30 | |

| Name | Hex Offset | Hex Value |
|------------------------------|------------|-----------|
| STRBSTRINFO | 10 | |
| STRBSTRSUMMARY | 0 | |
| STRBSTRSUMMARY_LEN | 64 | 68 |
| STRBSTRSUMMARY_LEN | 28 | 68 |
| STRBSTRSUMMARYCFLEVEL | 64 | |
| STRBSTRSUMMARYCFNAME | 38 | |
| STRBSTRSUMMARYDUMPRSN | 14 | |
| STRBSTRSUMMARYFLAGS | 60 | |
| STRBSTRSUMMARYFLGCOMPLETE | 60 | 80 |
| STRBSTRSUMMARYHDWND | 18 | |
| STRBSTRSUMMARYINCIDENTTOKEN | 40 | |
| STRBSTRSUMMARYNAME | 0 | |
| STRBSTRSUMMARYREBLDDUPLEXSTR | 60 | 8 |
| STRBSTRSUMMARYREBLDMETHODSTR | 60 | 4 |
| STRBSTRSUMMARYREBLDNEWSTR | 60 | 10 |
| STRBSTRSUMMARYREBLDOLDSTR | 60 | 20 |
| STRBSTRSUMMARYSTRDUMPID | 12 | |
| STRBSTRSUMMARYSTRINREBLD | 60 | 40 |
| STRBSTRSUMMARYTYPE | 10 | |
| STRBSTRTYPECACHE | 28 | 4 |
| STRBSTRTYPELIST | 28 | 3 |
| STRBSUMMARY | 0 | |
| STRBSUMMARY_LEN | 8 | C |
| STRBSUMMARY_LEN | 28 | C |
| STRBSUMMARYCOC | 4 | 40 |
| STRBSUMMARYCOMPLETE | 4 | 80 |
| STRBSUMMARYEMC | 4 | 8 |
| STRBSUMMARYFLAGS | 4 | |
| STRBSUMMARYLNM | 4 | 10 |
| STRBSUMMARYSTG | 4 | 20 |
| STRBSUMMARYVALUE | 0 | |
| STRBTABLEENTRYDETAIL | 86 | 4 |
| STRBTABLEENTRYDLCCB | 86 | 8 |
| STRBTABLEENTRYDLUCB | | |

| Name | Hex Offset | Hex Value |
|--------------------------|---------------|--------------|
| | 86 | 7 |
| STRBTABLEENTRYEMCDetail | | |
| | 86 | 9 |
| STRBTABLEENTRYENTRY | | |
| | 86 | 5 |
| STRBTABLEENTRYLEN | | |
| | 4 | |
| STRBTABLEENTRYLOCK | | |
| | 86 | 6 |
| STRBTABLEENTRYSTRDETAIL | | |
| | 86 | 2 |
| STRBTABLEENTRYSTRSUMMARY | | |
| | 86 | 1 |
| STRBTABLEENTRYSUMMARY | | |
| | 86 | 3 |
| STRBTABLEENTRYTYPE | | |
| | C | |
| STRBTAILORDPROB | | |
| | 84 | 20 |
| STRBTAILPOSRANGE | | |
| | 84 | 2 |

IXZ\$XPL Programming Interface information

Programming Interface information

IXZ\$XPL

End of Programming Interface information

IXZ\$XPL Heading Information

Common Name: JESXCF Exit parameter list
Macro ID: IXZ\$XPL
DSECT Name: IXZ\$XPL XIT01_INDICATOR XIT01_RESPONSE XIT01_XPL XIT02_INDICATOR
XIT02_RESPONSE XIT02_XPL MSG_EXTENTS XIT03_INDICATOR
XIT03_RESPONSE XIT03_XPL INSTALLATION_TABLE
Owning Component: JESXCF (SCJSC)
Eye-Catcher ID: 'Z\$XPL '
Offset: 0
Length: 6
Storage Attributes: Subpool: N/A
Key: 1
Size: Variable depending on the exit being called
Created by: Caller of the installation exit
Pointed to by: Register 1 (qualified by AR1) on entry to the
installation exit
Serialization: None
Function: Provide parameter information to installation
exits provided by the JESXCF component

IXZ\$XPL Map

| Offsets | | | | | |
|---------|------|------------|-----|------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | IXZ\$XPL | |
| 0 | (0) | CHARACTER | 6 | XPLEYE | IXZ\$XPL eyecatcher |
| 6 | (6) | BITSTRING | 1 | XPLVERS | IXZ\$XPL version |
| 6 | (6) | X'1' | 0 | XPLVERS_CURR | "XPLVERS_440" Current version |
| 6 | (6) | X'1' | 0 | XPLVERS_440 | "1" Version for SP 5.1.0 |
| 7 | (7) | BITSTRING | 1 | XPL_EXIT_VERS | |
| | | | | | Version number of the exit specific section of the IXZ\$XPL |
| 8 | (8) | CHARACTER | 16 | XPL_EXIT_NAME | |
| | | | | | The name of the exit being called |
| 24 | (18) | BITSTRING | 1 | XPL_ACTIVE_JES | |
| | | | | | The type of JES under which we are being being called (JES2 or JES3) |
| | | 1... | | XPL_JES2 | "X'80" Running under JES2 |
| | | .1.. | | XPL_JES3 | "X'40" Running under JES3 |
| 25 | (19) | BITSTRING | 3 | XPL_RSV1 | Reserved for future developement |
| 28 | (1C) | BITSTRING | 8 | XPL_INDICATOR | |
| | | | | | Indicator Flags |
| 36 | (24) | BITSTRING | 8 | XPL_RESPONSE | Response Flags |
| 44 | (2C) | ADDRESS | 4 | XPL_INSTALL_DATA | |
| | | | | | A Pointer to a queue of installation defined tables created in exit IXZXIT03 |
| 48 | (30) | SIGNED | 4 | XPL_SIZE | The size of the IXZ\$XPL include the base, exit specific sections, and the message |
| 52 | (34) | SIGNED | 4 | XPL_BASE_SIZE | |
| | | | | | The run time length of the base section |
| 52 | (34) | X'38' | 0 | XPL_END_BASE | "" The end of the base section of the IXZ\$XPL |

| Offsets | | | | | |
|---------|-----|------------|-----|------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | XIT01_INDICATOR | |
| 0 | (0) | BITSTRING | 1 | XIT01_INDICATORS | |
| | | | | | Environmental information passed to exit IXZXIT01 |
| | | 1... | | XIT01_SYSEVT | "X'80" Called for a system event message |
| | | .1.. | | XIT01_ACK | "X'40" Called for an acknowledgement message |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|------------|--|
| Dec | Hex | | | | |
| | | ..1. | | XIT01_APPL | "X'20" Called for an application message |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | XIT01_RESPONSE | |
| 0 | (0) | BITSTRING | 1 | XIT01_CHANGES | Indicate what changes have been made by the exit to the message |
| | | 1... | | XIT01_DEST_UP | "X'80" The destination has been updated |
| | | .1.. | | XIT01_SOURCE_UP | "X'40" The address of the originator of the message has been updated |
| | | ..1. | | XIT01_MESSAGE_UP | "X'20" The message data has been updated |
| | | ...1 | | XIT01_EXTENTS | "X'10" The message extents have been added |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|--------------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | XIT01_XPL | |
| 0 | (0) | CHARACTER | 40 | XIT01_DESTINATION (0) | Destination information for the message |
| 0 | (0) | CHARACTER | 8 | XIT01_DXCFGROUP | The group name portion of the destination address |
| 8 | (8) | CHARACTER | 16 | XIT01_DXCFMEMBER | The member name portion of the destination address |
| 24 | (18) | CHARACTER | 16 | XIT01_DXCFMAILBOX | The mailbox name portion of the destination address |
| 40 | (28) | CHARACTER | 40 | XIT01_SENDER (0) | Origin information for the message |
| 40 | (28) | CHARACTER | 8 | XIT01_SXCFGROUP | The group name portion of the senders address |
| 48 | (30) | CHARACTER | 16 | XIT01_SXCFMEMBER | The member name portion of the senders address |
| 64 | (40) | CHARACTER | 16 | XIT01_SXCFMAILBOX | The mailbox name portion of the senders address |
| 80 | (50) | SIGNED | 4 | XIT01_MESSAGE_LEN | Length of the message data being sent |
| 84 | (54) | ADDRESS | 4 | XIT01_MESSAGE | Pointer to the message data being sent |
| 88 | (58) | SIGNED | 4 | XIT01_MESSAGE_UPLN | Updated length of the message data |
| 92 | (5C) | ADDRESS | 4 | XIT01_MESSAGE_UPADDR | Pointer to the update message data to be sent |
| 96 | (60) | SIGNED | 4 | XIT01_MAX_ADD | The maximum amount of data that can be added via extents or changed message length |
| 100 | (64) | ADDRESS | 4 | XIT01_NAME_EXTENTS | Pointer to Installation added message extents |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|------------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | XIT02_INDICATOR | |
| 0 | (0) | BITSTRING | 1 | XIT02_INDICATORS | Environmental information passed to exit IXZXIT02 |
| | | 1... | | XIT02_SYSEVT | "X'80" Called for a system event message |
| | | .1.. | | XIT02_ACK | "X'40" Called for an acknowledgement message |

IXZ\$XPL Map

| Offsets | | | | | |
|---------|-----|------------|-----|------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| | | ..1. | | XIT02_APPL | "X'20'" Called for an application message |

| Offsets | | | | | |
|---------|-----|------------|-----|------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | XIT02_RESPONSE | |
| 0 | (0) | BITSTRING | 1 | XIT02_CHANGES | Indicate what changes have been made by the exit to the message |
| | | 1... | | XIT02_SOURCE_UP | "X'80'" The address of the originator of the message has been updated |
| | | .1.. | | XIT02_MESSAGE_UP | "X'40'" The message data has been updated |

| Offsets | | | | | |
|---------|------|------------|-----|--------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | XIT02_XPL | |
| 0 | (0) | CHARACTER | 40 | XIT02_DESTINATION (0) | Destination information for the message |
| 0 | (0) | CHARACTER | 8 | XIT02_DXCFCGROUP | The group name portion of the destination address |
| 8 | (8) | CHARACTER | 16 | XIT02_DXCFCMEMBER | The member name portion of the destination address |
| 24 | (18) | CHARACTER | 16 | XIT02_DXCFCMAILBOX | The mailbox name portion of the destination address |
| 40 | (28) | CHARACTER | 40 | XIT02_SENDER (0) | Origin information for the message |
| 40 | (28) | CHARACTER | 8 | XIT02_SXCFCGROUP | The group name portion of the senders address |
| 48 | (30) | CHARACTER | 16 | XIT02_SXCFCMEMBER | The member name portion of the senders address |
| 64 | (40) | CHARACTER | 16 | XIT02_SXCFCMAILBOX | The mailbox name portion of the senders address |
| 80 | (50) | SIGNED | 4 | XIT02_MESSAGE_LEN | Length of the message data being sent |
| 84 | (54) | ADDRESS | 4 | XIT02_MESSAGE | Pointer to the message data being sent |
| 88 | (58) | SIGNED | 4 | XIT02_MESSAGE_UPLen | Updated length of the message data |
| 92 | (5C) | ADDRESS | 4 | XIT02_MESSAGE_UPADDR | Pointer to the update message data to be sent |
| 96 | (60) | SIGNED | 4 | XIT02_MAX_ADD | The maximum amount of data that can be added via changed message lengths |
| 100 | (64) | ADDRESS | 4 | XIT02_NAME_EXTENTS | Pointer to Installation added message extents |

| Offsets | | | | | |
|---------|------|------------|-----|-----------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | MSG_EXTENTS | |
| 0 | (0) | CHARACTER | 8 | MSG_EXTENT_NAME | Name of the message extent |
| 8 | (8) | SIGNED | 4 | MSG_EXTENT_LEN | Length of the message extent including the header |
| 12 | (C) | ADDRESS | 4 | MSG_EXTENT | Address of the message extent |
| 16 | (10) | ADDRESS | 4 | NEXT_EXTENT | Address of the next message extent |
| 16 | (10) | X'14' | 0 | MSG_EXTENT_END | *** End of the message extent mapping |

| Offsets | | | | | |
|---------|------|------------|-----|--------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 16 | (10) | X'14' | 0 | LEN_MSG_EXTENT_MAP | "MSG_EXTENT_END-MSG_EXTENTS" Length of the message extent mapping |

| Offsets | | | | | |
|---------|-----|------------|-----|------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | XIT03_INDICATOR | Environmental information passed to exit IXZXIT03 |
| 0 | (0) | BITSTRING | 1 | XIT03_INDICATORS | |
| | | 1... | | XIT03_CONNECT | |
| | | .1... | | XIT03_DISCONNECT | |
| | | | | | "X'80" Called as part of connect processing |
| | | | | | "X'40" Called as part of disconnect processing |

| Offsets | | | | | |
|---------|-----|------------|-----|----------------|---------------------------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | XIT03_RESPONSE | Installation tables were added |
| 0 | (0) | BITSTRING | 1 | XIT03_CHANGED | |
| | | 1... | | XIT03_INSTALL | |
| | | | | | "X'80" Installation tables were added |

| Offsets | | | | | |
|---------|------|------------|-----|--------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | XIT03_XPL | The XCF group name of group being connected to or disconnected from |
| 0 | (0) | CHARACTER | 8 | XIT03_GROUP | |
| 8 | (8) | CHARACTER | 16 | XIT03_MEMBER | The XCF member name of member being connected to or disconnected from |
| 24 | (18) | ADDRESS | 4 | XIT03_INSTALLATION | A Pointer to a queue of installation defined tables that will be passed to exits IXZXIT01 and IXZXIT02 |

| Offsets | | | | | |
|---------|------|------------|-----|--------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | INSTALLATION_TABLE | Name of the installation defined table |
| 0 | (0) | CHARACTER | 8 | INST_TAB_NAME | |
| 8 | (8) | SIGNED | 4 | INST_TAB_LEN | Length of the installation defined table |
| 12 | (C) | ADDRESS | 4 | INST_TAB | Address of the installation defined table |
| 16 | (10) | ADDRESS | 4 | NEXT_INST_TAB | Address of the next installation defined table |
| 16 | (10) | X'14' | 0 | INST_TAB_END | *** End of the installation table mapping |
| 16 | (10) | X'14' | 0 | LEN_INST_TAB_MAP | "INST_TAB_END-INSTALLATION_TABLE" Length of the installation table mapping |

IXZ\$XPL Cross Reference

IXZ\$XPL Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------------------|------------|-----------|----------------------|------------|-----------|
| INST_TAB | C | | XIT01_SXCFMAILBOX | 28 | 40404040 |
| INST_TAB_END | 10 | 14 | XIT01_SXCFMEMBER | 40 | 40404040 |
| INST_TAB_LEN | 8 | 0 | XIT01_SYSEVT | 30 | 40404040 |
| INST_TAB_NAME | 0 | 40404040 | XIT01_XPL | 0 | 80 |
| INSTALLATION_TABLE | 0 | | XIT02_ACK | 0 | 40 |
| IXZ\$XPL | 0 | | XIT02_APPL | 0 | 20 |
| LEN_INST_TAB_MAP | 10 | 14 | XIT02_CHANGES | 0 | 0 |
| LEN_MSG_EXTENT_MAP | 10 | 14 | XIT02_DESTINATION | 0 | |
| MSG_EXTENT | C | | XIT02_DXCFGROUP | 0 | 40404040 |
| MSG_EXTENT_END | 10 | 14 | XIT02_DXCFMAILBOX | 18 | 40404040 |
| MSG_EXTENT_LEN | 8 | 0 | XIT02_DXCFMEMBER | 8 | 40404040 |
| MSG_EXTENT_NAME | 0 | 40404040 | XIT02_INDICATOR | 0 | |
| MSG_EXTENTS | 0 | | XIT02_INDICATORS | 0 | 0 |
| NEXT_EXTENT | 10 | | XIT02_MAX_ADD | 60 | 0 |
| NEXT_INST_TAB | 10 | | XIT02_MESSAGE | 54 | |
| XIT01_ACK | 0 | 40 | XIT02_MESSAGE_LEN | 50 | 0 |
| XIT01_APPL | 0 | 20 | XIT02_MESSAGE_UP | 0 | 40 |
| XIT01_CHANGES | 0 | 0 | XIT02_MESSAGE_UPADDR | 5C | |
| XIT01_DEST_UP | 0 | 80 | XIT02_MESSAGE_UPLLEN | 58 | 0 |
| XIT01_DESTINATION | 0 | | XIT02_NAME_EXTENTS | 64 | |
| XIT01_DXCFGROUP | 0 | 40404040 | XIT02_RESPONSE | 0 | |
| XIT01_DXCFMAILBOX | 18 | 40404040 | XIT02_SENDER | 28 | |
| XIT01_DXCFMEMBER | 8 | 40404040 | XIT02_SOURCE_UP | 0 | 80 |
| XIT01_EXTENTS | 0 | 10 | XIT02_SXCFGROUP | 28 | 40404040 |
| XIT01_INDICATOR | 0 | | XIT02_SXCFMAILBOX | 40 | 40404040 |
| XIT01_INDICATORS | 0 | 0 | XIT02_SXCFMEMBER | 30 | 40404040 |
| XIT01_MAX_ADD | 60 | 0 | XIT02_SYSEVT | 0 | 80 |
| XIT01_MESSAGE | 54 | | XIT02_XPL | 0 | |
| XIT01_MESSAGE_LEN | 50 | 0 | XIT03_CHANGED | 0 | 0 |
| XIT01_MESSAGE_UP | 0 | 20 | XIT03_CONNECT | 0 | 80 |
| XIT01_MESSAGE_UPADDR | 5C | | XIT03_DISCONNECT | 0 | 40 |
| XIT01_MESSAGE_UPLLEN | 58 | 0 | XIT03_GROUP | 0 | 40404040 |
| XIT01_NAME_EXTENTS | 64 | | XIT03_INDICATOR | 0 | |
| XIT01_RESPONSE | 0 | | XIT03_INDICATORS | 0 | 0 |
| XIT01_SENDER | 28 | | XIT03_INSTALL | 0 | 80 |
| XIT01_SOURCE_UP | 0 | 40 | | | |
| XIT01_SXCFGROUP | | | | | |

| Name | Hex Offset | Hex Value |
|--------------------|---------------|--------------|
| XIT03_INSTALLATION | 18 | |
| XIT03_MEMBER | 8 | 40404040 |
| XIT03_RESPONSE | 0 | |
| XIT03_XPL | 0 | |
| XPL_ACTIVE_JES | 18 | 0 |
| XPL_BASE_SIZE | 34 | 0 |
| XPL_END_BASE | 34 | 38 |
| XPL_EXIT_NAME | 8 | 40404040 |
| XPL_EXIT_VERS | 7 | 1 |
| XPL_INDICATOR | 1C | 0 |
| XPL_INSTALL_DATA | 2C | |
| XPL_JES2 | 18 | 80 |
| XPL_JES3 | 18 | 40 |
| XPL_RESPONSE | 24 | 0 |
| XPL_RSV1 | 19 | 0 |
| XPL_SIZE | 30 | 0 |
| XPLEYE | 0 | E95BE7D7 |
| XPLVERS | 6 | 1 |
| XPLVERS_CURR | 6 | 1 |
| XPLVERS_440 | 6 | 1 |

IXZYIXAC Programming Interface information

Programming Interface information

IXZYIXAC

End of Programming Interface information

IXZYIXAC Heading Information

Common Name: JESXCF Acknowledgement message
Macro ID: IXZYIXAC
DSECT Name: IXZYIXAC
Owning Component: JESXCF (SCJSC)
Eye-Catcher ID: 'YIXAC '
 Offset: 0
 Length: 6
Storage Attributes: Subpool: N/A
 Key: 1
Size: See YIXAC_LENGTH
Created by: JESXCF component in response to IXZXIXAC macro
Pointed to by: Returned to the caller of the IXZXIXRM macro
Serialization: None
Function: Provides acknowledgement information on delivery of messages issued via the IXZXIXSM macro service.

IXZYIXAC Map

| Offsets | | | | | |
|---------|------|------------|-----|------------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | IXZYIXAC | JES XCF Acknowledgement message |
| 0 | (0) | CHARACTER | 6 | YIXACEYE | Control block eyecatcher |
| 6 | (6) | BITSTRING | 1 | YIXACVER | Control block version |
| 6 | (6) | X'1' | 0 | IXACCURR | "IXAC510" Current version |
| 6 | (6) | X'1' | 0 | IXAC510 | "1" Version for HBB5510 |
| 7 | (7) | BITSTRING | 1 | YIXAC_FLAG1 | Flag byte 1 |
| | | 1... .. | | RC_PROVIDED | "X'80" The receiving routine provided return code information |
| 8 | (8) | CHARACTER | 8 | YIXAC_REQ_TOKEN | Request token for the message that this acknowledgement is for |
| 16 | (10) | SIGNED | 4 | YIXAC_APPL_RETURN_CODE | Return code information returned by the receiving routine |
| 20 | (14) | CHARACTER | 8 | YIXAC_TIME_SENT | Time that the message was sent by the sending routine (Store Clock format) |
| 28 | (1C) | CHARACTER | 8 | YIXAC_TIME_ACK | Time that the message was acknowledged (Store Clock) |
| 36 | (24) | SIGNED | 2 | YIXAC_APPL_DLEN | Length of the data returned to the sender via the IXZXIXAC macro |
| 38 | (26) | SIGNED | 2 | YIXAC_APPL_DATA | Offset from the start of the IXZYIXAC mapping to the data returned to the sender via the IXZXIXAC macro |
| 38 | (26) | X'28' | 0 | YIXAC_END | "" End of IXZYIXAC mapping |
| 38 | (26) | X'28' | 0 | YIXAC_LENGTH | "YIXAC_END-IXZYIXAC" Length of IXZYIXAC mapping |

IXZYIXAC Cross Reference

| Name | Hex Offset | Hex Value |
|------------------------|-----------------------|----------------------|
| IXACCURR | 6 | 1 |
| IXAC510 | 6 | 1 |
| IXZYIXAC | 0 | |
| RC_PROVIDED | 7 | 80 |
| YIXAC_APPL_DATA | | |
| | 26 | 0 |
| YIXAC_APPL_DLEN | | |
| | 24 | 0 |
| YIXAC_APPL_RETURN_CODE | | |
| | 10 | 0 |
| YIXAC_END | 26 | 28 |
| YIXAC_FLAG1 | 7 | 0 |
| YIXAC_LENGTH | 26 | 28 |
| YIXAC_REQ_TOKEN | | |
| | 8 | 40404040 |
| YIXAC_TIME_ACK | | |
| | 1C | 40404040 |
| YIXAC_TIME_SENT | | |
| | 14 | 40404040 |
| YIXACEYE | 0 | E8C9E7C1 |
| YIXACVER | 6 | 0 |

IXZYIXEN Programming Interface information

Programming Interface information

IXZYIXEN

End of Programming Interface information

IXZYIXEN Heading Information

Common Name: JESXCF Message Envelope
Macro ID: IXZYIXEN
DSECT Name: IXZYIXEN
Owning Component: JESXCF (SCJSC)
Eye-Catcher ID: 'YIXEN '
 Offset: 0
 Length: 6
Storage Attributes: Subpool: N/A
 Key: 1
Size: 116 Bytes
Created by: JESXCF component based upon input from the IXZXIXSM macro
Pointed to by: Returned by the IXZXIXRM macro service
Serialization: None
Function: Provide header and control information about messages being sent between JES software components

IXZYIXEN Map

| Offsets | | | | | |
|---------|------|------------|-----|------------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | IXZYIXEN | JES XCF Mesage Envelope |
| 0 | (0) | CHARACTER | 6 | YIXENEYE | Control block eyecatcher |
| 6 | (6) | BITSTRING | 1 | YIXENVER | Control block version |
| 6 | (6) | X'1' | 0 | IXENCURR | "IXEN510" Current version |
| 6 | (6) | X'1' | 0 | IXEN510 | "1" Version for HBB5510 |
| 7 | (7) | BITSTRING | 1 | YIXEN_FLAG1 | Flag byte |
| | | 1... | | RESENT_DUE_TO_IPL | |
| | | | | | "X'80" Message has been resent to the receiving system, because the receiving system was re-IPLed |
| | | .1.. | | MESSAGE_REROUTED | |
| | | | | | "X'40" Message has been rerouted by the IXZXIXRR service |
| | | ..1. | | MESSAGE_RESIDUAL | |
| | | | | | "X'20" Message was present in the mailbox when the attacher disconnected |
| | | ...1 | | MESSAGE_RECEIVED | |
| | | | | | "X'10" Message has been received |
| | | 1... | | MESSAGE_CHECKPOINTED | |
| | | | | | "X'08" Message has been checkpointed |
| 8 | (8) | SIGNED | 4 | YIXEN_JESXCF_MAINT_LVL | Maintaince level of the JESXCF component |
| 12 | (C) | SIGNED | 4 | YIXEN_MESSAGE_SEQ | Message sequence number |
| 16 | (10) | CHARACTER | 40 | SENDING_ADDRESS (0) | Address of the receiver of the message |
| 16 | (10) | CHARACTER | 8 | SENDING_GROUP | Group name of the receiver |
| 24 | (18) | CHARACTER | 16 | SENDING_MEMBER | Member name of the receiver |
| 40 | (28) | CHARACTER | 16 | SENDING_MAILBOX | Mailbox name of the receiver |
| 56 | (38) | CHARACTER | 40 | RETURN_ADDRESS (0) | Address of the sender of the message |
| 56 | (38) | CHARACTER | 8 | RETURN_GROUP | Group name of the sender |
| 64 | (40) | CHARACTER | 16 | RETURN_MEMBER | Member name of the sender |

| Offsets | | | | | |
|---------|------|------------|-----|--------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 80 | (50) | CHARACTER | 16 | RETURN_MAILBOX | Mailbox name of the sender |
| 96 | (60) | BITSTRING | 1 | REQTYPE | Type of message request |
| | | 1... | | SYNC_TYPE | "X'80" Synchronous message |
| | | .1.. | | ASYNCTYPE | "X'40" Asynchronous message that does not return an acknowledgement message to the sender |
| | | ..1. | | ASYNACK_TYPE | "X'20" Asynchronous message that returns an acknowledgement message to the sender |
| | | ...1 | | COMM_TYPE | "X'10" Asynchronous message that will not be resent to the receiver if the receiving system re-IPLs. No acknowledgement will be sent to the sender of the message |
| | | 1... | | ACKMSG_TYPE | "X'08" Acknowledgement message |
| 97 | (61) | BITSTRING | 1 | REQTYPE2 | Reserved for developement |
| 98 | (62) | BITSTRING | 1 | SEGTYPE | Type of message segment |
| | | 1... | | FIRST_SEGMENT | "X'80" First segment of a multi- segmented message |
| | | .1.. | | MIDDLE_SEGMENT | "X'40" Middle segment of a multi- segmented message |
| | | ..1. | | LAST_SEGMENT | "X'20" Last segment of a multi- segmented message |
| | | ...1 | | SINGLE_SEGMENT | "X'10" Single segmented message |
| | | 1... | | ABORT_SEGMENT | "X'08" Last segment of a multi- segmented message because the message has been aborted |
| 99 | (63) | BITSTRING | 1 | SEGTYPE2 | Reserved for developement |
| 100 | (64) | BITSTRING | 1 | MESSAGE_CONTENT | Content of the message |
| | | 1... | | SYSTEM_EVENT | "X'80" A system event |
| | | .1.. | | ACK_MESSAGE | "X'40" An acknowledgement message |
| | | ..1. | | APPL_MESSAGE | "X'20" Application message |
| 101 | (65) | BITSTRING | 1 | MESSAGE_CONTENT2 | Reserved for developement |
| 102 | (66) | SIGNED | 2 | LENGTH_OF_MESSAGE | Length of the message not including the envelope this is an unsigned variable with a range of 0 - 64K |
| 104 | (68) | SIGNED | 2 | MESSAGE_OFFSET | Offset from the start of the envelope to the message data this is an unsigned variable with a range of 0 - 64K |
| 106 | (6A) | BITSTRING | 1 | YIXEN_MSGATTR | Message attribute flags |
| | | 1... | | J3CONNECT | "X'80" This is a JES3 Connect message |
| | | .1.. | | EXPRESS | "X'40" This is a JES3 Express message |
| 107 | (6B) | BITSTRING | 1 | YIXEN_RSV1 | Reserved for developement |
| 108 | (6C) | SIGNED | 4 | SYSTEM_RETURN_CODE | System return code |
| 112 | (70) | SIGNED | 4 | SYSTEM_REASON_CODE | System reason code |

IXZYIXEN Cross Reference

IXZYIXEN Cross Reference

| Name | Hex Offset | Hex Value |
|----------------------|------------|-----------|
| ABORT_SEGMENT | | |
| | 62 | 8 |
| ACK_MESSAGE | 64 | 40 |
| ACKMSG_TYPE | 60 | 8 |
| APPL_MESSAGE | 64 | 20 |
| ASYNCTYPE | 60 | 40 |
| ASYNCACTYPE | | |
| | 60 | 20 |
| COMM_TYPE | 60 | 10 |
| EXPRESS | 6A | 40 |
| FIRST_SEGMENT | | |
| | 62 | 80 |
| IXENCURR | 6 | 1 |
| IXEN510 | 6 | 1 |
| IXZYIXEN | 0 | |
| J3CONNECT | 6A | 80 |
| LAST_SEGMENT | 62 | 20 |
| LENGTH_OF_MESSAGE | | |
| | 66 | 0 |
| MESSAGE_CHECKPOINTED | | |
| | 7 | 8 |
| MESSAGE_CONTENT | | |
| | 64 | 0 |
| MESSAGE_CONTENT2 | | |
| | 65 | 0 |
| MESSAGE_OFFSET | | |
| | 68 | 0 |
| MESSAGE_RECEIVED | | |
| | 7 | 10 |
| MESSAGE_REROUTED | | |
| | 7 | 40 |
| MESSAGE_RESIDUAL | | |
| | 7 | 20 |
| MIDDLE_SEGMENT | | |
| | 62 | 40 |
| REQTYPE | 60 | 0 |
| REQTYPE2 | 61 | 0 |
| RESENT_DUE_TO_IPL | | |
| | 7 | 80 |
| RETURN_ADDRESS | | |
| | 38 | |
| RETURN_GROUP | 38 | 40404040 |
| RETURN_MAILBOX | | |
| | 50 | 40404040 |
| RETURN_MEMBER | | |
| | 40 | 40404040 |
| SEGTYPE | 62 | 0 |
| SEGTYPE2 | 63 | 0 |
| SENDING_ADDRESS | | |
| | 10 | |
| SENDING_GROUP | | |
| | 10 | 40404040 |
| SENDING_MAILBOX | | |
| | 28 | 40404040 |
| SENDING_MEMBER | | |
| | 18 | 40404040 |
| SINGLE_SEGMENT | | |
| | 62 | 10 |
| SYNC_TYPE | 60 | 80 |
| SYSTEM_EVENT | 64 | 80 |
| SYSTEM_REASON_CODE | | |
| | 70 | 0 |
| SYSTEM_RETURN_CODE | | |

| Name | Hex Offset | Hex Value |
|------------------------|------------|-----------|
| | 6C | 0 |
| YIXEN_FLAG1 | 7 | 0 |
| YIXEN_JESXCF_MAINT_LVL | | |
| | 8 | 0 |
| YIXEN_MESSAGE_SEQ | | |
| | C | 0 |
| YIXEN_MSGATTR | | |
| | 6A | 0 |
| YIXEN_RSV1 | 6B | 0 |
| YIXENEYE | 0 | E8C9E7C5 |
| YIXENVER | 6 | 0 |

IXZYIXIF Programming Interface information

Programming Interface information

IXZYIXIF

End of Programming Interface information

IXZYIXIF Heading Information

Common Name: JESXCF Information list entry
Macro ID: IXZYIXIF
DSECT Name: IXZYIXIF
Owning Component: JESXCF (SCJSC)
Eye-Catcher ID: 'YIXIF '
 Offset: 0
 Length: 6
Storage Attributes: Subpool: N/A
 Key: 1
Size: See YIXIF_LENGTH
Created by: JESXCF component in response a IXZXIXIF macro call
Pointed to by: Returned by IXZXIXRM
Serialization: None
Function: Provide information to the users of the JESXCF about the JES and XCF connections.

IXZYIXIF Map

| Offsets | | | | | |
|---------|------|------------|-----|---------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | IXZYIXIF | JES XCF Member information record |
| 0 | (0) | CHARACTER | 6 | YIXIFEYE | Control block eyecatcher |
| 6 | (6) | BITSTRING | 1 | YIXIFVER | Control block version |
| 6 | (6) | X'1' | 0 | IXIFCURR | "IXIF510" Current version |
| 6 | (6) | X'1' | 0 | IXIF510 | "1" Version for HBB5510 |
| 7 | (7) | BITSTRING | 1 | YIXIF_FLAG1 | Flag byte 1 |
| | | 1... | | YIXIF_JES2 | "X'80" The JES member is running JES2 |
| | | .1.. | | YIXIF_JES3 | "X'40" The JES member is running JES3 |
| | | ..1. | | YIXIF_UNKNOWN | "X'20" Member is not attached via JESXCF |
| 8 | (8) | SIGNED | 2 | YIXIF_LEN | Length of this element of the array |
| 10 | (A) | SIGNED | 2 | YIXIF_OFFSET | Offset from the beginning of this element of the array to the next element. This is zero if this is the last element of the array |
| 12 | (C) | BITSTRING | 8 | YIXIF_REQ_TOKEN | Request token for that was returned to the caller of the IXZXIXIF service |
| 20 | (14) | CHARACTER | 8 | YIXIF_F MID | The release level of the JES product |
| 28 | (1C) | SIGNED | 4 | YIXIF_MAINT_LVL | JESXCF maintenance level |
| 32 | (20) | CHARACTER | 8 | YIXIF_GROUP | XCF Group name |
| 40 | (28) | CHARACTER | 16 | YIXIF_MEMBER | XCF Member name |
| 56 | (38) | CHARACTER | 8 | YIXIF_SYSNAME | MVS System name that the JES is running on |
| 64 | (40) | CHARACTER | 32 | YIXIF_USTATE | User state information Set by IXZXIXUS macro service |
| 96 | (60) | BITSTRING | 8 | YIXIF_MEMBER_TOKEN | XCF Member token |
| 104 | (68) | BITSTRING | 8 | YIXIF_SYSPLEX_TOKEN | XCF Sysplex token |
| 112 | (70) | BITSTRING | 1 | YIXIF_MEMBER_STATUS | Member Status |
| | | 1... | | YIXIF_ACTIVE | "X'80" Member is active, connection between JESXCF address space and JES address space is functioning |
| | | .1.. | | YIXIF_NO_JESXCF | "X'40" MVS XCF state of the member is active but the connection between JESXCF address space and JES address space is not functioning, probable cause is JES abend. |
| | | ..1. | | YIXIF_NOT_ACTIVE | "X'20" Both MVS XCF status and JESXCF connection status indicates that the member is not active |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|--------------------|---|
| Dec | Hex | | | | |
| 113 | (71) | BITSTRING | 3 | YIXIF_RESERVED1 | Reserved for development |
| 116 | (74) | SIGNED | 4 | YIXIF_SYSTEM_TOKEN | XCF System token |
| 120 | (78) | CHARACTER | 4 | YIXIF_SSNAME | Subsystem interface name |
| 120 | (78) | X'7C' | 0 | YIXIF_END | *** End of the IXZYIXIF mapping |
| 120 | (78) | X'7C' | 0 | YIXIF_LENGTH | "YIXIF_END-IXZYIXIF" Length of the IXZYIXIF mapping |

IXZYIXIF Cross Reference

| Name | Hex Offset | Hex Value |
|---------------------|------------|-----------|
| IXIFCURR | 6 | 1 |
| IXIF510 | 6 | 1 |
| IXZYIXIF | 0 | |
| YIXIF_ACTIVE | 70 | 80 |
| YIXIF_END | 78 | 7C |
| YIXIF_FLAG1 | 7 | 0 |
| YIXIF_F MID | 14 | 40404040 |
| YIXIF_GROUP | 20 | 40404040 |
| YIXIF_JES2 | 7 | 80 |
| YIXIF_JES3 | 7 | 40 |
| YIXIF_LEN | 8 | 0 |
| YIXIF_LENGTH | 78 | 7C |
| YIXIF_MAINT_LVL | | |
| | 1C | 0 |
| YIXIF_MEMBER | 28 | 40404040 |
| YIXIF_MEMBER_STATUS | | |
| | 70 | 0 |
| YIXIF_MEMBER_TOKEN | | |
| | 60 | 0 |
| YIXIF_NO_JESXCF | | |
| | 70 | 40 |
| YIXIF_NOT_ACTIVE | | |
| | 70 | 20 |
| YIXIF_OFFSET | A | 0 |
| YIXIF_REQ_TOKEN | | |
| | C | 0 |
| YIXIF_RESERVED1 | | |
| | 71 | 0 |
| YIXIF_SSNAME | | |
| | 78 | 40404040 |
| YIXIF_SYSNAME | | |
| | 38 | 40404040 |
| YIXIF_SYSPLEX_TOKEN | | |
| | 68 | 0 |
| YIXIF_SYSTEM_TOKEN | | |
| | 74 | 0 |
| YIXIF_UNKNOWN | | |
| | 7 | 20 |
| YIXIF_USTATE | 40 | 40404040 |
| YIXIFEYE | 0 | E8C9E7C9 |
| YIXIFVER | 6 | 0 |

IXZYIXJE Programming Interface information

Programming Interface information

IXZYIXJE

End of Programming Interface information

IXZYIXJE Heading Information

Common Name: JESXCF Event notification
Macro ID: IXZYIXJE
DSECT Name: IXZYIXJE
Owning Component: JESXCF (SCJSC)
Eye-Catcher ID: 'YIXJE '
 Offset: 0
 Length: 6
Storage Attributes: Subpool: N/A
 Key: 1
Size: 41 bytes
Created by: JESXCF subcomponent
Pointed to by: YIXSE_OFFSET in a system event envelope
Serialization: None
Function: Provide notification of events that the JESXCF address space has detected. Such as:
 1) Termination of the connection between JESXCF and the JES address space

IXZYIXJE Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|----------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | IXZYIXJE | Post exit parameter list |
| 0 | (0) | CHARACTER | 6 | YIXJEEYE | Eyecatcher, must be set to YIXJE |
| 6 | (6) | BITSTRING | 1 | YIXJEVER | Parameter list version indicator |
| 6 | (6) | X'1' | 0 | IXJECURR | "IXJE510" Current version |
| 6 | (6) | X'1' | 0 | IXJE510 | "1" |
| 7 | (7) | BITSTRING | 1 | YIXJERSV | Reserved |
| 8 | (8) | BITSTRING | 1 | YIXJE_TYPE | Event type |
| | | 1... | | YIXJE_CONNTERM | "X'80" Connection between JESXCF and specified JES terminated |
| 9 | (9) | CHARACTER | 8 | YIXJE_GROUP | Group name of the member whose connection terminated |
| 17 | (11) | CHARACTER | 16 | YIXJE_MEMBER | Member name of the member whose connection terminated |
| 33 | (21) | BITSTRING | 8 | YIXJE_REQTOKEN | The request token for the message that timed out |

IXZYIXJE Cross Reference

| Name | Hex Offset | Hex Value |
|----------------|------------|-----------|
| IXJECURR | 6 | 1 |
| IXJE510 | 6 | 1 |
| IXZYIXJE | 0 | |
| YIXJE_CONNTERM | 8 | 80 |
| YIXJE_GROUP | 9 | 40404040 |
| YIXJE_MEMBER | 11 | 40404040 |
| YIXJE_REQTOKEN | 21 | 0 |
| YIXJE_TYPE | 8 | |
| YIXJEEYE | 0 | E8C9E7D1 |
| YIXJERSV | 7 | 0 |
| YIXJEVER | 6 | 0 |

IXZYIXPE Programming Interface information

Programming Interface information

IXZYIXPE

End of Programming Interface information

IXZYIXPE Heading Information

Common Name: JESXCF Post exit parameter list
Macro ID: IXZYIXPE
DSECT Name: IXZYIXPE
Owning Component: JESXCF (SCJSC)
Eye-Catcher ID: 'YIXPE '
 Offset: 0
 Length: 6
Storage Attributes: Subpool: N/A
 Key: 1
Size: 56 bytes
Created by: Caller of the post exit
Pointed to by: Register 1 points to a word that points to the IXZYIXPE parameters
Serialization: None
Function: Provide parameter information to a JESXCF post exit.

IXZYIXPE Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-----------------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | IXZYIXPE | Post exit parameter list |
| 0 | (0) | CHARACTER | 6 | YIXPEEYE | Eyecatcher, must be set to YIXPE |
| 6 | (6) | BITSTRING | 1 | YIXPEVER | Parameter list version indicator |
| 6 | (6) | X'1' | 0 | IXPECURR | "IXPE510" Current version |
| 6 | (6) | X'1' | 0 | IXPE510 | "1" |
| 7 | (7) | BITSTRING | 1 | YIXPRERS | Reserved |
| 8 | (8) | CHARACTER | 40 | YIXPE_POSTED_ADDRESS (0) | Address of the mailbox that the post routine is being called for |
| 8 | (8) | CHARACTER | 8 | YIXPE_GROUP | Group name of the mailbox |
| 16 | (10) | CHARACTER | 16 | YIXPE_MEMBER | Member name of the mailbox |
| 32 | (20) | CHARACTER | 16 | YIXPE_MAILBOX | Mailbox name part of the address |
| 48 | (30) | ADDRESS | 4 | YIXPE_POSTDATA | Address of the POSTDATA area defined when the mailbox is created |
| 52 | (34) | BITSTRING | 4 | YIXPE_POSTDATA_ALET | ALET that can be used to qualify the POSTDATA area that was created when the mailbox was created |

IXZYIXPE Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------------------|------------|-----------|----------|------------|-----------|
| IXPECURR | 6 | 1 | YIXPEVER | 6 | 0 |
| IXPE510 | 6 | 1 | YIXPRERS | 7 | 0 |
| IXZYIXPE | 0 | | | | |
| YIXPE_GROUP | 8 | 40404040 | | | |
| YIXPE_MAILBOX | 20 | 40404040 | | | |
| YIXPE_MEMBER | 10 | 40404040 | | | |
| YIXPE_POSTDATA | 30 | | | | |
| YIXPE_POSTDATA_ALET | 34 | 0 | | | |
| YIXPE_POSTED_ADDRESS | 8 | | | | |
| YIXPEEYE | 0 | E8C9E7D7 | | | |

IXZYIXSE Programming Interface information

Programming Interface information

IXZYIXSE

End of Programming Interface information

IXZYIXSE Heading Information

Common Name: JESXCF System Event Message
Macro ID: IXZYIXSE
DSECT Name: IXZYIXSE
Owning Component: JESXCF (SCJSC)
Eye-Catcher ID: 'YIXSE '
 Offset: 0
 Length: 6
Storage Attributes: Subpool: N/A
 Key: 1
Size: 10 bytes
Created by: JESXCF component as a result of the XCF system
 event SRB exit being driven
Pointed to by: Address returned as a message by the IXZXIXRM macro
 service
Serialization: None
Function: Provide JES Dispatchable Units access to system
 event information

IXZYIXSE Map

| Offsets | | | | | |
|---------|-----|------------|-----|----------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | IXZYIXSE | JES XCF System event message |
| 0 | (0) | CHARACTER | 6 | YIXSEEYE | Eyecatcher |
| 6 | (6) | BITSTRING | 1 | YIXSEVER | Control block version |
| 6 | (6) | X'1' | 0 | IXSECURR | "IXSE510" Current version |
| 6 | (6) | X'1' | 0 | IXSE510 | "1" Version for HBB5510 |
| 7 | (7) | BITSTRING | 1 | YIXSE_TYPE | Type of system event |
| | | 1... | | YIXSE_SYSEVENT | |
| | | | | | "X'80" System event is being processed the message data is mapped by IXCYGEPL |
| | | ..1. | | YIXSE_JESEVENT | |
| | | | | | "X'20" Message is a notification of an event detected by the JESXCF address space. The message data is mapped by IXZYIXJE. |
| | | ...1 | | YIXSE_INFO | "X'10" Response to a request for member information. The message data is mapped by IXZYIXIF. |
| 8 | (8) | SIGNED | 2 | YIXSE_OFFSET | Offset from the start of the IXZYIXSE mapping to the message data. Use YIXSE_TYPE to determine the type of mapping to be applied to the message data. |

IXZYIXSE Cross Reference

| Name | Hex Offset | Hex Value |
|----------------|------------|-----------|
| IXSECURR | 6 | 1 |
| IXSE510 | 6 | 1 |
| IXZYIXSE | 0 | |
| YIXSE_INFO | 7 | 10 |
| YIXSE_JESEVENT | | |
| | 7 | 20 |
| YIXSE_OFFSET | 8 | 0 |
| YIXSE_SYSEVENT | | |
| | 7 | 80 |
| YIXSE_TYPE | 7 | 0 |
| YIXSEEYE | 0 | E8C9E7E2 |
| YIXSEVER | 6 | 0 |

IXZYPIDS Programming Interface information

Programming Interface information

IXZYPIDS

End of Programming Interface information

IXZYPIDS Heading Information

Common Name: JESXCF Performance Information Data Stream
Macro ID: IXZYPIDS
DSECT Name: IXZYPIDS
Owning Component: JESXCF (SCJSC)
Eye-Catcher ID: N/A
 Offset: N/A
 Length: N/A
Storage Attributes: Subpool: N/A
 Key: 1
Size: Variable
Created by: JESXCF component as a result of a IXZXIXPI
 macro invocation
Pointed to by: Address is maintained by the caller of the IXZXIXPI
 service
Serialization: None
Function: Provide delay information for a JES3 environment

IXZYPIDS Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | | |
| | |1 | | PIDS_BEGIN | "X'0001" Key that indicates the start of the data stream |
| | |1. | | PIDS_JES_ASID | "X'0002" Key indicates the JES ASID |
| | |11 | | PIDS_NUM_DELAY | "X'0003" Key indicates the number of delays |
| | |1.. | | PIDS_DELAY | "X'0004" Key indicates the start of a delay entry |
| | |1.1 | | PIDS_REQ_ASID | "X'0005" Key indicates the requesters ASID |
| | |11. | | PIDS_REQ_TYPE | "X'0006" Key indicates the request type |
| | |111 | | PIDS_REQ_SUBTYPE | "X'0007" Key indicates the request subtype |

JCT Heading Information

Common Name: Job Control Table
Macro ID: IEFAJCTB
DSECT Name: INJMJCT, IEFAACTB
Owning Component: Interpreter (SC1B9)
Eye-Catcher ID: 'JCT '
 Offset: -4 (SWA prefix)
 Length: 4 bytes
Storage Attributes: Subpool: 236 or 237 (SWA), or 241 (MSTR)
 Key: 1
 Residency: Below 16 MB in virtual storage
Size: 352 bytes - 176 bytes for IEFAJCTB
 Frequency: One per job
Created by: The Interpreter
Pointed to by: - JSCBJCTA field (SVA) of the JSCB data area
 - SWBUFPtr field in IEFZB506 upon return from IEFQMREQ
 macro (Preferred method of SVA translation)
 - SWBLKPtr field in IEFZB505 upon return from SWAREQ
 macro
Serialization: None required
Function: IEFAJCTB contains job status information and pointers to
 other data areas used by the initiator. IEFAACTB
 contains job accounting information and is contained in
 this mapping.

JCT Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|--------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | | |
| 0 | (0) | DBL WORD | 8 | (0) | |
| 0 | (0) | X'0' | 0 | INJMJCT | *** |
| 0 | (0) | CHARACTER | 3 | JCTDSKAD | SVA OF THIS JCT |
| 3 | (3) | CHARACTER | 1 | JCTIDENT | JCT ID = 0 |
| 3 | (3) | X'0' | 0 | JCTID | "0" |
| 4 | (4) | CHARACTER | 1 | JCTJSRNO | INTERNAL JOB SERIAL NUMBER |
| 5 | (5) | CHARACTER | 1 | JCTJBLBS (0) | JOBLIB SWITCH BITS 0-3 |
| 5 | (5) | CHARACTER | 1 | JCTJSTAT | JOB STATUS INDICATORS |
| 5 | (5) | X'20' | 0 | JCTJSTPC | "32" BIT-2/JOB STEP CANCELLED BY CONDITION CODES |
| 5 | (5) | X'8' | 0 | JCTABEND | "8" BIT 4 - JCT ABEND BIT HW16 |
| 5 | (5) | X'4' | 0 | INCMSTS | "4" BIT-5/JOB FAILED BIT BIT 5 = 1 JOB FAILED BIT 6 = 0 GO JOB |
| 5 | (5) | X'2' | 0 | INDMCTLG | "2" BIT 6 = 1 CATALOG JOB |
| 5 | (5) | X'2' | 0 | INCMCAT | "2" BIT-6/CATALOG BIT |
| 5 | (5) | X'1' | 0 | INCMNSET | "1" BIT7/RESERVED |
| 6 | (6) | CHARACTER | 1 | JCTJMGPO | MESSAGE CLASS |
| 7 | (7) | CHARACTER | 1 | JCTJMGLV (0) | 4 BITS FOR MESSAGE LEVEL -SET BY IEFVJA |
| 7 | (7) | X'10' | 0 | INCMML1 | "16" JCL MESSAGE LEVEL=1 BIT I68 |
| 7 | (7) | X'20' | 0 | INCMML2 | "32" JCL MESSAGE LEVEL=2 BIT I68 |
| 7 | (7) | X'80' | 0 | INCMALL | "128" ALLOCATION MESSAGE LEVEL=1 BIT I68 |
| 7 | (7) | CHARACTER | 1 | JCTJPRTY | 4 BITS FOR JOB PRIORITY |
| 8 | (8) | CHARACTER | 8 | JCTJNAME | JOBNAME |
| 16 | (10) | CHARACTER | 8 | JCTJTPTN | T/P TERMINAL NAME |
| 24 | (18) | CHARACTER | 4 | JCTPDIP | PDI CORE POINTER Y02670 |
| 28 | (1C) | CHARACTER | 3 | JCTGDGNT | GDG NAME TABLE Y02670 |
| 31 | (1F) | CHARACTER | 1 | JCTJCSMF | JOB CLASS SPECS FOR SMF Y02668 TERMINATION ROUTINES Y02668 |

JCT Map

| Offsets | | | | | |
|---------|------|------------|-----|------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 32 | (20) | CHARACTER | 4 | JCTSDKAD | SVA OF FIRST SCT |
| 36 | (24) | CHARACTER | 4 | JCTJCTX | SVA OF JCTX |
| 40 | (28) | CHARACTER | 4 | JCTACTAD | SVA OF FIRST ACT |
| 44 | (2C) | CHARACTER | 8 | JCTSMRBA | RBA SYSTEM MSG D.S. Y02641 |
| 52 | (34) | CHARACTER | 1 | JCTSCT | STEP NO. OF FAILING STEP Y02641 |
| 53 | (35) | CHARACTER | 1 | | RESERVED |
| 54 | (36) | CHARACTER | 2 | JCTJDPCD | DEPENDENCY CODE |
| 56 | (38) | CHARACTER | 2 | JCTJDPOP | DEPENDENCY OPERATOR |
| 58 | (3A) | CHARACTER | 28 | | ROOM FOR 7 MORE DEPS |
| 86 | (56) | CHARACTER | 1 | JCTRSW1 | CHECKPOINT/RESTART SWITCHES |
| 86 | (56) | X'80' | 0 | JCTWARM5 | "128" BIT0 - WARM START |
| 86 | (56) | X'40' | 0 | JCTSTERM | "64" STEP TERMINATION HAS BEGUN (PCP WARM START ONLY)AACA |
| 86 | (56) | X'20' | 0 | JCTCONTR | "32" BIT 2 - JOB IS ELIGIBLE FOR CONTINUE RESTART Y02641 PROCESSING |
| 86 | (56) | X'10' | 0 | JCTCKFT | "16" BIT 3 - CHECKPOINT TAKEN FOR THIS STEP |
| 86 | (56) | X'8' | 0 | JCTCKPTR | "8" BIT 4 - CHECKPOINT RESTART (INTRA-STEP) TO BE DONE |
| 86 | (56) | X'4' | 0 | JCTSTEPR | "4" BIT 5 - STEP RESTART TO BE DONE |

Comment

BITS 6AND 7 MUST BE ZERO

End of Comment

| | | | | | |
|----|------|-----------|---|----------|--|
| 87 | (57) | CHARACTER | 1 | JCTRSW2 | CHECKPOINT/RESTART SWITCHES |
| 87 | (57) | X'80' | 0 | JCTSYSCK | "128" BIT 0 - SYSCHK DD STATEMENT PRESENT |
| 87 | (57) | X'40' | 0 | JCTNARST | "64" BIT 1 - JOB INELIGIBLE FOR AUTOMATIC RESTART Y02641 |
| 87 | (57) | X'20' | 0 | JCTNORST | "32" BIT 2 - NO RESTART TO BE DONE |
| 87 | (57) | X'10' | 0 | JCTNOCKP | "16" BIT 3 - NO CHECKPOINTS TO BE TAKEN |
| 87 | (57) | X'8' | 0 | JCTRESTT | "8" BIT 4 - DO RESART IF NECESSARY |
| 87 | (57) | X'4' | 0 | JCTDSOCR | "4" BIT 5- RESERVED M2344 |
| 87 | (57) | X'2' | 0 | JCTDSQJB | "2" BIT 6- RESERVED M2344 |

Comment

IN ORDER TO IMPLEMENT MVT IT HAS BEEN NECESSARY TO ADD THE FOLLOWING FIELDS TO THE JCT. TO AVOID CAUSING ERRORS IN THE CASE OF THE REASSEMBLING OF ALREADY EXISTING MODULES WHICH REFERENCE THESE FIELDS, THEY ARE GENERATED HERE ONLY AS COMMENTS CARDS. NOTE THAT DUE TO THE FACT THAT THIS MACRO GENERATES THE ACT IMMEDIATELY AFTER THE JCT, IT IS NOT POSSIBLE TO REFERENCE THESE FIELDS BY CODING THEM AFTER THE MACRO. FOR NOW THEY MUST BE REFERENCED BY DISPLACEMENT (WHICH IS GIVEN BELOW), PREFERABLY THROUGH THE USE OF EQUATES AND THE SYMBOLS BELOW. NOTE ALSO THAT THIS MACRO IS NOT VALID FOR REFERENCING THE ACT UNTIL THESE NEW FIELDS HAVE ACTUALLY BEEN INCORPORATED.

JCTDETD DS CL4 SVA OF DSENQ TABLE

(DISPLACEMENT = 88 (DECIMAL)

JCTEQREG DS CL2 REGION PARAMETER (BINARY)

(DISPLACEMENT = 92 (DECIMAL)

End of Comment

| | | | | | |
|----|------|-----------|---|----------|-----------------------------------|
| 88 | (58) | CHARACTER | 1 | (6) | ROOM FOR THE ABOVE |
| 94 | (5E) | CHARACTER | 1 | JCTQIDNT | IDENTITY OF Q FOR JOB (MVT ONLY) |
| 95 | (5F) | CHARACTER | 1 | JCTSNUMB | NUMBER OF STEPS RUN (MVT ONLY) |
| 96 | (60) | SIGNED | 4 | JCTSTIOT | SVA OF COMPRESSED TIOT (MVT ONLY) |

| Offsets | | | | | |
|---|------|------------|-----|--------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| Comment | | | | | |
| IN PCP-C/R SAVE OF SCATALLY BY IEFRAPCP AACA | | | | | |
| End of Comment | | | | | |
| 100 | (64) | SIGNED | 4 | JCTDEVT | DEVICE TYPE OF CHECKPOINT DATA SET |
| 104 | (68) | CHARACTER | 1 | JCTCKTTR (3) | SVA OF JFCB FOR CHECKPOINT DATA SET |
| 107 | (6B) | CHARACTER | 1 | JCTNTRK | NUMBER OF TRACKS ON SYS1.JOBQE USED BY PTM258 THE JOB -SET AND USED BY THE INIT./TERM. PTM258 |
| 108 | (6C) | SIGNED | 2 | JCTNRCKP | NUMBER OF CHECKPOINTS TAKEN |
| 110 | (6E) | CHARACTER | 1 | JCTVOLSQ | VOLUME SEQUENCE NUMBER FOR CHECKPOINT DATA SET |
| 111 | (6F) | CHARACTER | 1 | JCTJSB | JOB STATUS SWITCHES Y02641 |
| 111 | (6F) | X'40' | 0 | JCTJ3RUN | "64" When on, JES3 is running in this address space |
| 111 | (6F) | X'20' | 0 | JCTJ3UAF | "32" When on, JES3 version supports call to SMS |
| Comment | | | | | |
| UNITAFF SSI | | | | | |
| End of Comment | | | | | |
| 111 | (6F) | X'10' | 0 | JCTHASDD | "16" JOB HAS DD STATEMENTS |
| 111 | (6F) | X'8' | 0 | JCTJSBIN | "8" JOB ENTERED INTERPRETATION Y02641 |
| 111 | (6F) | X'4' | 0 | JCTJSBAL | "4" JOB ENTERED ALLOCATION Y02641 |
| 111 | (6F) | X'2' | 0 | JCTJSBEX | "2" JOB ENTERED EXECUTION Y02641 |
| 111 | (6F) | X'1' | 0 | JCTJSBTM | "1" JOB ENTERED TERMINATION Y02641 |
| 112 | (70) | SIGNED | 4 | JCTSSTR | SVA OF SCT FOR FIRST STEP TO BE RUN |
| 116 | (74) | CHARACTER | 1 | JCTSTAT2 | ADDITIONAL STATUS INDICATORS O102 |
| 116 | (74) | X'80' | 0 | JCTSPSYS | "128" BIT 0 - =1 INDICATES SPOOLED SYSIN FOR JOB O102 SET BY IEFVDA O102 TESTED BY IEESD575(Queue ALTER)- O102 MVT AND MFT ONLY O102 |
| 116 | (74) | X'40' | 0 | JCTADSPC | "64" BIT 1 - =1 INDICATES ADDRSPC=REAL Y01029 SET BY VEA AND VJA Y01029 |
| 116 | (74) | X'20' | 0 | JCTENDIT | "32" SET BY IEFSD41Q,IEFWEXTA A25134 TESTED BY IEFDSOWR,IEFYNIMP A25134 JOB TERMINATION INDICATOR A25134 |
| 116 | (74) | X'10' | 0 | JCTSWSM | "16" BIT 3 - =1 INDICATES WARM START MESSAGE M3144 'INIT=JOBNAME' IS TO BE SUPPRESSED M3144 FOR THIS JOB M3144 SET BY IEFVHH M3144 TESTED BY IEFSD305 M3144 |
| 116 | (74) | X'8' | 0 | JCTPERFM | "8" BIT 4=1 PERFORM SPECIFIED ON THE JOB CARD |
| 116 | (74) | X'4' | 0 | JCTBLP | "4" 0-BLP WILL BE TREATED AS NL Y02668 1-BLP WILL BE TREATED AS BYPASS Y02668 LABEL PROCESSING Y02668 |
| 116 | (74) | X'2' | 0 | JCTSISO | "2" SYSIN/SYSOUT SWA BELOW THE LINE INDICATOR |
| 116 | (74) | X'1' | 0 | JCTSWAUP | "1" SWA ABOVE THE LINE INDICATOR |
| 117 | (75) | CHARACTER | 1 | JCTCKIDL | LENGTH OF CHECKPOINT ID |
| 118 | (76) | CHARACTER | 16 | JCTCKIDT | CHECKPOINT IDENT AACA |
| Comment | | | | | |
| AACA | | | | | |
| THE FOLLOWING SYSTEMS MGMT FACILITIES SUBFIELDS MUST AACA BEGIN ON A HALF WORD BOUNDARY AACA | | | | | |
| AACA | | | | | |
| End of Comment | | | | | |
| 134 | (86) | CHARACTER | 3 | JCTJMR | SVA OF JMR *** SYSTEMS *** AACA |
| 137 | (89) | CHARACTER | 1 | JCTJMRD | DATE DIFFERENCE STEP START-JOB START * AACA |
| 138 | (8A) | CHARACTER | 1 | JCTJMROP | SMF OPTION SWITCHES * MANAGEMENT AACA |
| 139 | (8B) | CHARACTER | 1 | JCTJMRCL | SMF CANCELLATION CONTROL STATUS * AACA |
| 140 | (8C) | CHARACTER | 3 | | RESERVED * FACILITIES |
| 143 | (8F) | CHARACTER | 3 | JCTJMRSS | STEP START TIME OF DAY * AACA |
| 146 | (92) | CHARACTER | 3 | JCTJMRJT | JOB START TIME OF DAY * SUBFIELDS AACA |

JCT Cross Reference

| Offsets | | | | | |
|---------|------|------------|-----|--------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 149 | (95) | CHARACTER | 3 | JCTJMRJD | RESERVED ***** |
| 152 | (98) | CHARACTER | 4 | JCTSRBT | ACCUMULATED SRB TIME FOR JOB Y02652 |
| 156 | (9C) | CHARACTER | 1 | | RESERVED |
| 157 | (9D) | CHARACTER | 3 | JCTSSD | RESERVED |
| 160 | (A0) | CHARACTER | 8 | JCTUSER8 (0) | USER ID FIELD. Used for APPC Transactions |
| 160 | (A0) | CHARACTER | 7 | JCTUSER | USER ID FIELD. SET BY C/I MODULE IEFVJA AS A RESULT OF A USER KEYWORD ON THE JOB STATEMENT. |
| 167 | (A7) | CHARACTER | 1 | JCTPRFMF | PERFORMANCE GROUP NUMBER |
| 168 | (A8) | CHARACTER | 4 | JCTACODE | ABEND CODE FIELD Y02641 |
| 172 | (AC) | CHARACTER | 4 | JCTVULDP | POINTER TO VOLUME UNLOAD TABLE Y02670 |
| 172 | (AC) | X'B0' | 0 | JCTLNGTH | "*-INJMJCT" JCT LENGTH 20001 |

Comment

20001
ACCOUNT CONTROL TABLE

End of Comment

| | | | | | |
|-----|------|-----------|-----|--------------|--|
| 176 | (B0) | DBL WORD | 8 | IEFAACTB (0) | |
| 176 | (B0) | CHARACTER | 3 | ACTDSKAD | SVA OF THIS ACT |
| 179 | (B3) | CHARACTER | 1 | ACTIDENT | TABLE ID ACT = 16 |
| 179 | (B3) | X'1' | 0 | ACTID | "1" |
| 180 | (B4) | CHARACTER | 4 | ACTJTIME | JOB RUNNING TIME |
| 184 | (B8) | CHARACTER | 20 | ACTPRGNM | PROGRAMMERS NAME |
| 204 | (CC) | CHARACTER | 3 | ACTNEXT | SVA OF NEXT ACT |
| 207 | (CF) | CHARACTER | 1 | ACTJNFLD | NBR OF JOB ACCOUNTING FIELDS |
| 208 | (D0) | CHARACTER | 144 | ACTACCNT | THE REST OF THE FIELDS HAVE THE FOLLOWING FORMAT FOR JOB ACCOUNTING- 1 BYTE- LENGTH OF FIELD VARIABLE BYTES- CONTENTS OF FIELD (REPEATED FOR N FIELDS) STEP ACCOUNTING HAS THE FOLLOWING FORMAT FOR EACH STEP- 3 BYTES- MAXIMUM STEP RUNNING TIME 1 BYTE- NBR OF FIELDS IN STEP 1 BYTE- LENGTH OF FIELD VARIABLE BYTES- CONTENTS OF FIELD (LAST 2 REPEATED N TIMES) |

Comment

THIS SECTION FORMERLY HELD THE SMB MADE OBSOLETE BY AOS/II RELEASE 2

End of Comment

JCT Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| ACTACCNT | D0 | | JCTACTAD | 28 | |
| ACTDSKAD | B0 | | JCTADSPC | 74 | 40 |
| ACTID | B3 | 1 | JCTBLP | 74 | 4 |
| ACTIDENT | B3 | | JCTCKFT | 56 | 10 |
| ACTJNFLD | CF | | JCTCKIDL | 75 | |
| ACTJTIME | B4 | | JCTCKIDT | 76 | |
| ACTNEXT | CC | | JCTCKPTR | 56 | 8 |
| ACTPRGNM | B8 | | JCTCKTTR | 68 | |
| IEFAACTB | B0 | | JCTCONTR | 56 | 20 |
| INCMALL | 7 | 80 | JCTDEVT | 64 | |
| INCMCAT | 5 | 2 | JCTDSKAD | 0 | |
| INCMML1 | 7 | 10 | JCTDSOCR | 57 | 4 |
| INCMML2 | 7 | 20 | JCTDSOJB | 57 | 2 |
| INCMNSET | 5 | 1 | JCTENDIT | 74 | 20 |
| INCMSTS | 5 | 4 | JCTGDGNT | 1C | |
| INDMCTLG | 5 | 2 | JCTHASDD | 6F | 10 |
| INJMJCT | 0 | 0 | JCTID | 3 | 0 |
| JCTABEND | 5 | 8 | JCTIDENT | 3 | |
| JCTACODE | A8 | | JCTJBLBS | 5 | |

| Name | Hex Offset | Hex Value |
|----------|---------------|--------------|
| JCTJCSMF | 1F | |
| JCTJCTX | 24 | |
| JCTJDPCD | 36 | |
| JCTJDPOP | 38 | |
| JCTJMGLV | 7 | |
| JCTJMGPO | 6 | |
| JCTJMR | 86 | |
| JCTJMRCL | 8B | |
| JCTJMRD | 89 | |
| JCTJMRJD | 95 | |
| JCTJMRJT | 92 | |
| JCTJMROP | 8A | |
| JCTJMRSS | 8F | |
| JCTJNAME | 8 | |
| JCTJPRTY | 7 | |
| JCTJSB | 6F | |
| JCTJSBAL | 6F | 4 |
| JCTJSBEX | 6F | 2 |
| JCTJSBIN | 6F | 8 |
| JCTJSBTM | 6F | 1 |
| JCTJSRNO | 4 | |
| JCTJSTAT | 5 | |
| JCTJSTPC | 5 | 20 |
| JCTJTPTN | 10 | |
| JCTJ3RUN | 6F | 40 |
| JCTJ3UAF | 6F | 20 |
| JCTLNGTH | AC | B0 |
| JCTNARST | 57 | 40 |
| JCTNOCKP | 57 | 10 |
| JCTNORST | 57 | 20 |
| JCTNRCKP | 6C | |
| JCTNTRK | 6B | |
| JCTPDIP | 18 | |
| JCTPERFM | 74 | 8 |
| JCTPRFMF | A7 | |
| JCTQIDNT | 5E | |
| JCTRESTT | 57 | 8 |
| JCTRSW1 | 56 | |
| JCTRSW2 | 57 | |
| JCTSCT | 34 | |
| JCTSDKAD | 20 | |
| JCTSISO | 74 | 2 |
| JCTSMRBA | 2C | |
| JCTSNUMB | 5F | |
| JCTSPSYS | 74 | 80 |
| JCTSRBT | 98 | |
| JCTSSD | 9D | |
| JCTSSTR | 70 | |
| JCTSTAT2 | 74 | |
| JCTSTEPR | 56 | 4 |
| JCTSTERM | 56 | 40 |
| JCTSTIOT | 60 | |
| JCTSWAUP | 74 | 1 |
| JCTWSM | 74 | 10 |
| JCTSYSCK | 57 | 80 |
| JCTUSER | A0 | |
| JCTUSER8 | A0 | |
| JCTVOLSQ | 6E | |
| JCTVULDP | AC | |
| JCTWARMS | 56 | 80 |

JCTX Heading Information

Common Name: JOB CONTROL TABLE EXTENSION
Macro ID: IEFJCTX
DSECT Name: JCTXIN
Owning Component: Interpreter (SC1B9)
Eye-Catcher ID: None
Storage Attributes: Subpool: 236 or 237 (SWA), or 241 (MSTR)
 Key: 1
 Residency: Below
Size: 176 Below
 Frequency: One per Job
Created by: The Interpreter
Pointed to by: - JCTJCTX field (SVA) in the JCT data area
Serialization: None
Function: Contains job status information in addition to that contained in the JCT

JCTX Map

| Offsets | | | | | |
|---------|------|------------|-----|------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 176 | JCTXIN | TABLE NAME |
| 0 | (0) | ADDRESS | 3 | JCTXDSKA | DISK ADDR OF THIS JCTX. |
| 3 | (3) | CHARACTER | 1 | JCTXIDNT | JCTX IDENTIFICATION = 30 |
| 4 | (4) | CHARACTER | 8 | JCTXGROP | GROUP ID FIELD |
| 12 | (C) | CHARACTER | 8 | JCTXJVTN | JCL DEFINITION VECTOR TABLE (JDVT) NAME |
| 20 | (14) | ADDRESS | 4 | JCTXSWB | SCHEDULER WORK BLOCK (SWB) STRUCTURE POINTER |
| 24 | (18) | CHARACTER | 1 | JCTXRSV1 | RESERVED |
| 25 | (19) | CHARACTER | 3 | JCTXRGSZ | REGION STORAGE SIZE IN K BYTES |
| 28 | (1C) | CHARACTER | 4 | JCTXRSV2 | RESERVED |
| 32 | (20) | CHARACTER | 8 | JCTXMLSZ | MEMLIMIT SIZE IN M BYTES-ON DWORD@LAA |
| 40 | (28) | CHARACTER | 4 | JCTXRSV3 | RESERVED |
| 44 | (2C) | CHARACTER | 8 | JCTXTIME | TIMING FIELDS |
| 44 | (2C) | SIGNED | 4 | JCTXVFUT | JOB VF USAGE TIME |
| 48 | (30) | SIGNED | 4 | JCTXVFAT | JOB VF AFFINITY TIME |
| 52 | (34) | UNSIGNED | 4 | JCTXSTMT | JOB STATEMENT NUMBER |
| 56 | (38) | UNSIGNED | 4 | JCTXTSTM | TOTAL NUMBER STATEMENTS FOR JOB |
| 60 | (3C) | UNSIGNED | 4 | JCTXJTL | MAXIMUM JOB TIME LIMIT |
| 64 | (40) | UNSIGNED | 4 | JCTXJCLV | JCL VERSION NUMBER |
| 68 | (44) | ADDRESS | 4 | JCTXDSTB | Address of Data Set Information Table |
| 72 | (48) | CHARACTER | 16 | JCTXSJFS | SJF shared latch step chain serialization work area - required to be on a double-word boundary |
| 88 | (58) | CHARACTER | 4 | JCTXSSD | STEP START DATE |
| 92 | (5C) | CHARACTER | 4 | JCTXJMRD | JOB START DATE |
| 96 | (60) | CHARACTER | 79 | JCTXRESV | Reserved for future use |
| 175 | (AF) | UNSIGNED | 1 | JCTXVERS | VERSION LEVEL |

JCTX Constants

| Len | Type | Value | Name | Description |
|-----|---------|-------|----------|--|
| 1 | DECIMAL | 1 | JCTX3320 | 01 = HBB4410 |
| 1 | DECIMAL | 2 | JCTX4420 | 02 = HBB4420 |
| 1 | DECIMAL | 2 | JCTXCVER | 02 = HBB4420 (Requires recompile of creating modules if changed) |
| 1 | DECIMAL | 2 | JCTXLVID | CURRENT LEVEL |

JCTX Cross Reference

| Name | Hex Offset | Hex Value |
|----------|---------------|--------------|
| JCTXDSKA | 0 | |
| JCTXDSTB | 44 | |
| JCTXGROP | 4 | |
| JCTXIDNT | 3 | |
| JCTXIN | 0 | |
| JCTXJCLV | 40 | |
| JCTXJMRD | 5C | |
| JCTXJTL | 3C | |
| JCTXJVTN | C | |
| JCTXMLSZ | 20 | |
| JCTXRESV | 60 | |
| JCTXRGSZ | 19 | |
| JCTXRSV1 | 18 | |
| JCTXRSV2 | 1C | |
| JCTXRSV3 | 28 | |
| JCTXSJFS | 48 | |
| JCTXSSD | 58 | |
| JCTXSTMT | 34 | |
| JCTXSWB | 14 | |
| JCTXTIME | 2C | |
| JCTXTSTM | 38 | |
| JCTXVERS | AF | |
| JCTXVFAT | 30 | |
| JCTXVFUT | 2C | |

JESCT Programming Interface information

Programming Interface information

JESCT

ONLY the following fields are part of the programming interface information:

- JESFRQEX
- JES3OUTD

End of Programming Interface information

JESCT Heading Information

Common Name: Job Entry Subsystem Communication Table

Macro ID: IEFJESCT

DSECT Name: JESCT, JESPEXT

Owning Component: Initiator/SubSystem Interface (SC1B6)

Eye-Catcher ID:

- JESCT: JEST
- JESPEXT: JESPEXT
- Offset: - JESCT: 0
- JESPEXT: 0
- Length: - JESCT: 4
- JESPEXT: 7

Storage Attributes:

- Subpool: - JESCT: nucleus - JESPEXT: 241 (common)
- Key: - JESCT: 0 - JESPEXT: 0
- Residency: - JESCT: below - JESPEXT: below

Size:

- JESCT: 128 bytes
- JESPEXT: 152 bytes

Created by:

- JESCT: IEFJESDM, the data only module just for the base portion of the JESCT which resides in the nucleus.
- JESPEXT: IEFJSINT, a Subsystem Interface initialization module which acquires the storage for the pageable extension.

Pointed to by:

- JESCT: CVTJESCT field in the CVT
- JESPEXT: JESCTEXT field in the JESCT

Serialization: None for the data areas in this macro. However individual fields are serialized as mentioned for the field or in some cases by services referenced.

Function: This macro provides the mapping for the JESCT and its pageable extension. Its purpose is to provide a combination of information and a vector table for the subsystem interface or scheduler service related functions.

JESCT Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | JESCT | |
| 0 | (0) | CHARACTER | 4 | JESCTID | ACRONYM: JEST |
| 4 | (4) | ADDRESS | 4 | JESUNITS | POINTER TO SYSRES UCB |
| 8 | (8) | ADDRESS | 4 | JESWAA | ADDRESS OF THE SWA Y02668 MANAGER - LOCATE MODE Y02668 |
| 12 | (C) | ADDRESS | 4 | JESQMGR | ADDRESS OF SWA MANAGER Y02668 MOVE MODE Y02668 |
| 16 | (10) | ADDRESS | 4 | JESRESQM | ENTRY POINT USED TO INTERFACE BETWEEN THE QMNGRIO MACRO AND THE RESIDENT SWA MNGR Y02668 |
| 20 | (14) | ADDRESS | 4 | JESSSREQ | ADDRESS OF THE IEFSSREQ Y02668 ROUTINE Y02668 |
| 24 | (18) | ADDRESS | 4 | JESSSCT | ADDRESS OF THE FIRST Y02668 SUBSYSTEM COMMUNICATIONS Y02668 TABLE Y02668 |
| 28 | (1C) | BITSTRING | 4 | JESPJESN | NAME OF PRIMARY JOB ENTRY Y02668 SUBSYSTEM SET AT SYSGEN Y02668 |
| 32 | (20) | ADDRESS | 4 | JESALLOC | DEVICE ALLOCATION ENTRY POINT USED BY INITIATOR |
| 36 | (24) | ADDRESS | 4 | JESUNALC | DEVICE UNALLOCATION ENTRY POINT USED BY INITIATOR |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|--|
| Dec | Hex | | | | |
| 40 | (28) | ADDRESS | 4 | JESCATL | DEVICE ALLOCATION PRIVATE CATALOG ENTRY POINT USED BY INITIATOR |
| 44 | (2C) | SIGNED | 4 | JESNUCBS | NUMBER OF TAPE AND DA UCB'S IN SYSTEM. USED BY DEVICE ALLOCATION |
| 48 | (30) | ADDRESS | 4 | JESSASTA | ADDRESS OF SUBSYSTEM ALLOCATION SEQUENCE TABLE |
| 52 | (34) | ADDRESS | 4 | JESEDT | Address of Allocation Eligible Device Table, valid only during NIP. |
| 56 | (38) | ADDRESS | 4 | JESRECM | ADDRESS OF IEFJRECM RESOURCE MANAGER |
| 60 | (3C) | ADDRESS | 4 | JESRECF | ADDRESS OF IEFJRECF RESOURCE MANAGER |
| 64 | (40) | ADDRESS | 4 | JESHASH | ADDRESS OF SUBSYSTEM HASH TABLE |
| 68 | (44) | SIGNED | 2 | JESNRSS | TOTAL NUMBER OF SUBSYSTEMS |
| 70 | (46) | BITSTRING | 1 | JESFLG | FLAG BYTE |
| | | 1... | | JESJSSNT | "X'80" IEFJSSNT EXISTS |
| | | .1.. | | JESFSIT | "X'40" FSI Trace installed. |
| | | ..1. | | JESFRQEX | "X'20" SSI function request exit installed |
| | | ...1 | | JESRSV15 | "X'10" RESERVED |
| | | 1.. | | JESRSV16 | "X'08" RESERVED |
| | |1.. | | JESRSV17 | "X'04" RESERVED |
| | |1. | | JESRSV18 | "X'02" RESERVED |
| | |1 | | JESRSV19 | "X'01" RESERVED |
| 71 | (47) | BITSTRING | 1 | JESJESFG | PRIMARY SUBSYSTEM FLAGS |
| | | 1... | | JESPSUBA | "X'80" PRIMARY SUBSYSTEM ACTIVE INDICATOR |
| | | .1.. | | JESPSUBI | "X'40" IF JESPSUBA=1 AND THIS BIT =0 THEN MVS CONSOLE ALTERING COMMANDS MAY BE USED BUT JES3 CONSOLE ALTERING COMMANDS MAY NOT BE USED. IF JESPSUBA=1 AND THIS BIT =1 THEN JES3 CONSOLE ALTERING COMMANDS MAY BE USED IN ADDITION TO MVS CONSOLE ALTERING COMMANDS. IF JESPSUBA=0 THEN ONLY MVS CONSOLE ALTERING COMMANDS MAY BE USED. |
| | | ..1. | | JES3ACTV | "X'20" JES3 SUBSYSTEM ACTIVE |
| | | ...1 | | JES3OUTD | "X'10" JES3 support of OUTADD/OUTDEL MVS services available |
| | | 1.. | | JESRSV24 | "X'08" RESERVED |
| | |1.. | | JESRSV25 | "X'04" RESERVED |
| | |1. | | JESRSV26 | "X'02" RESERVED |
| | |1 | | JESRSV27 | "X'01" RESERVED |
| 72 | (48) | ADDRESS | 4 | JESALLOP | POINTER TO ALLOCATION DESCRIPTOR BLOCK |
| 76 | (4C) | SIGNED | 2 | JESALLOA | ASID OF ALLOCATION ADDRESS SPACE |
| 78 | (4E) | BITSTRING | 1 | JESALLOF | ALLOCATION FUNCTION FLAGS |
| | | 1... | | JESUASR | "X'80" UNIT ALLOCATION STATUS RECORDING IS ACTIVE |
| | | .1.. | | JESUASF | "X'40" UNIT ALLOCATION STATUS RECORDING HAS FAILED |
| | | ..1. | | JESUPLER | "X'20" UPL DOES NOT MATCH THE UCBS |
| | | ...1 | | JESALRDY | "X'10" ALLOCATION READY |
| | | 1.. | | JESV2EDT | "X'08" EDT VERSION 2 OR LATER INDICATOR |
| | |1.. | | JESRSV05 | "X'04" RESERVED |
| | |1. | | JESRSV06 | "X'02" RESERVED |
| | |1 | | JESRSV07 | "X'01" RESERVED |
| 79 | (4F) | BITSTRING | 1 | JESRSV08 | RESERVED |
| 80 | (50) | ADDRESS | 4 | JESPCDP | POINTER IN CSA FOR PCDPARMS |
| 84 | (54) | SIGNED | 4 | JESAUCBS | NUMBER OF ALL UCBS IN THE SYSTEM |
| 88 | (58) | SIGNED | 4 | JESDUECB | DISPLAY ALLOCATION SDUMP ECB |
| 92 | (5C) | ADDRESS | 4 | JESUPLP | UCB POINTER LIST ADDRESS |
| 96 | (60) | ADDRESS | 4 | JESMNTP | POINTER TO ARRAY OF MOUNT- ABLE DEVICE TYPES |
| 100 | (64) | ADDRESS | 4 | JESCTEXT | POINTER TO THE PAGEABLE JESCT EXTENSION |
| 104 | (68) | ADDRESS | 4 | JESPT | POINTER TO THE PROGRAM PROPERTIES TABLE |
| 108 | (6C) | ADDRESS | 4 | JESRSTRT | POINTER TO RESTART CODE TABLE |
| 112 | (70) | ADDRESS | 4 | JESPARSE | POINTER TO THE PARSER ROUTINE |
| 116 | (74) | ADDRESS | 4 | JESXB603 | POINTER TO RESTART COMPONENT MESSAGE MODULE (IEFXB603) |
| 120 | (78) | ADDRESS | 4 | JESDACA | POINTER TO THE DEVICE ALLOCATION COMMUNICATION AREA |

JESCT Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|----------------|
| Dec | Hex | | | | |
| 124 | (7C) | ADDRESS | 4 | JESRSV28 | RESERVED FIELD |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | JESPEXT | |
| 0 | (0) | SIGNED | 4 | (0) | JESCT EXTENSION |
| 0 | (0) | CHARACTER | 7 | JESSID | IDENTIFIER 'JESPEXT' |
| 7 | (7) | BITSTRING | 1 | JESSVERS | CONTROL BLOCK VERSION NUMBER |
| 8 | (8) | ADDRESS | 4 | JESSJCNL | ADDRESS OF SCHEDULER JCL FACILITY ROUTER ROUTINE |
| 12 | (C) | ADDRESS | 4 | JESSJDVT | ADDRESS OF JCL DEFINITION VECTOR TABLE CHAIN |
| 16 | (10) | ADDRESS | 4 | JESSJRNL | ADDRESS OF JOURNAL WRITE RTNE |
| 20 | (14) | ADDRESS | 4 | JESDB401 | Unused except for formatter use |
| 24 | (18) | ADDRESS | 4 | JESXVNSL | IEFXVNSL ENTRY POINT |
| 28 | (1C) | ADDRESS | 4 | JESGB4DC | IEFGB4DC ENTRY POINT |
| 32 | (20) | ADDRESS | 4 | JESGB4UV | IEFGB4UV ENTRY POINT |
| 36 | (24) | ADDRESS | 4 | JESAB445 | Address of the Devcie Allocation Defaults Table - Initialized by IEFAB4I0 |
| 40 | (28) | ADDRESS | 4 | JESGB400 | ALLOCATION PUT INTERFACE RTNE. |
| 44 | (2C) | ADDRESS | 4 | JESQB551 | IEFQB551 ENTRY POINT |
| 48 | (30) | ADDRESS | 4 | JESQB556 | IEFQB556 ENTRY POINT |
| 52 | (34) | ADDRESS | 4 | JESXBPUT | JOURNAL PUT/GET INTERFACE RTN |
| 56 | (38) | ADDRESS | 4 | JESIB650 | IEFIB650 ENTRY POINT (MSG MOD) |
| 60 | (3C) | ADDRESS | 4 | JESSJF | ADDRESS OF SCHEDULER JCL FACILITY ROUTINE |
| 64 | (40) | SIGNED | 4 | JESTIOTS | SIZE OF THE TASK I/O TABLE TIOT |
| 68 | (44) | SIGNED | 4 | JESMAXDD | MAXIMUM NUMBER OF SINGLE UNIT DD'S ALLOWED FOR A JOB STEP |
| 72 | (48) | ADDRESS | 4 | JESPMQST | ADDRESS OF THE SWA MANAGER STORAGE TABLE (QMST) |
| 76 | (4C) | ADDRESS | 4 | JESPMQDIR | ADDRESS OF THE SWA MANAGER DIAGNOSTICS ROUTINE |
| 80 | (50) | ADDRESS | 4 | JESGDTOK | ADDRESS OF THE ALLOCATION GET DD TOKEN SERVICE |
| 84 | (54) | ADDRESS | 4 | JESSMSIB | POINTER TO THE STORAGE MANAGEMENT SUBSYSTEM SSIB |
| 88 | (58) | ADDRESS | 4 | JESQBSVA | ADDRESS OF SWA MANAGER ROUTINE SUPPORTING UNAUTHORIZED, TASK AND CROSS MEMORY MODE CALLERS |
| 92 | (5C) | ADDRESS | 4 | JESMECHK | ADDRESS OF THE MUTUAL EXCLUSIVITY CHECKER ROUTINE |
| 96 | (60) | ADDRESS | 4 | JESXBCHK | Address of the scheduler checkpoint SWA blocks routine, used by DFP during checkpoint processing - Initialized by IEFQBINT at master scheduler base initialization |
| 100 | (64) | ADDRESS | 4 | JESFSICB | Address of FSI trace Control Block |
| 104 | (68) | ADDRESS | 4 | JESSJTCL | Address of the SWBTU processor control routine IEFSSJTCL: -initialized by IEFSSJLOD during master scheduler base initial. -Normally referenced through the SWBTUREQ macro |
| 108 | (6C) | SIGNED | 4 | JESPPTUS | PPT table concurrent use count -Normally referenced through the IEFPPSCN macro |
| 112 | (70) | ADDRESS | 4 | JESPPTSC | PPT scan routine IEFPPPTSC: -initialized by IEFSSJINT during master scheduler base initial. -Normally referenced through the IEFPPSCN macro |
| 116 | (74) | SIGNED | 4 | JESDSNNO | Counter for final qualifier of temporary data set name |
| 120 | (78) | CHARACTER | 2 | JESDSNID | ID for temporary data sets on this system. |
| 122 | (7A) | SIGNED | 2 | JESRSVEA | Reserved for future use |
| 124 | (7C) | SIGNED | 4 | JESSSIVT | Token for SSI vector table |
| 128 | (80) | CHARACTER | 4 | JESSSIPC | PC number for IEFSSI macro |
| 132 | (84) | CHARACTER | 4 | JESVTPC | PC number for IEFSSVT macro |
| 136 | (88) | ADDRESS | 4 | JESMSGT@ | SSI message table address |
| 140 | (8C) | SIGNED | 4 | JESRSVEB | Reserved for future use |
| 144 | (90) | SIGNED | 4 | JESRSVEC | Reserved for future use |
| 148 | (94) | SIGNED | 4 | JESRSVED | Reserved for future use |
| 148 | (94) | X'8' | 0 | JESSCVER | "8" CURRENT VERSION LEVEL |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|------------|------------------------|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | JESCT | RESETS PROGRAM COUNTER |

JESCT Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|-----------|------------|-----------|-----------|------------|-----------|
| JESAB445 | 24 | | JESRSVED | 94 | |
| JESALLOA | 4C | 0 | JESRSV05 | 4E | 4 |
| JESALLOC | 20 | | JESRSV06 | 4E | 2 |
| JESALLOF | 4E | 0 | JESRSV07 | 4E | 1 |
| JESALLOP | 48 | | JESRSV08 | 4F | 0 |
| JESALRDY | 4E | 10 | JESRSV15 | 46 | 10 |
| JESAUCBS | 54 | 0 | JESRSV16 | 46 | 8 |
| JESCATL | 28 | | JESRSV17 | 46 | 4 |
| JESCT | 0 | | JESRSV18 | 46 | 2 |
| JESCT | 0 | | JESRSV19 | 46 | 1 |
| JESCTEXT | 64 | | JESRSV24 | 47 | 8 |
| JESCTID | 0 | D1C5E2E3 | JESRSV25 | 47 | 4 |
| JESDACA | 78 | | JESRSV26 | 47 | 2 |
| JESDB401 | 14 | | JESRSV27 | 47 | 1 |
| JESDSNID | 78 | | JESRSV28 | 7C | |
| JESDSNNO | 74 | | JESSASTA | 30 | |
| JESDUECB | 58 | 0 | JESSCOVER | 94 | 8 |
| JESEDT | 34 | | JESSID | 0 | |
| JESFLG | 46 | 0 | JESSJCNL | 8 | |
| JESFRQEX | 46 | 20 | JESSJDVT | C | |
| JESFSICB | 64 | | JESSJF | 3C | |
| JESFSIT | 46 | 40 | JESSJRNL | 10 | |
| JESGB4DC | 1C | | JESSJTCL | 68 | |
| JESGB4UV | 20 | | JESSMSIB | 54 | |
| JESGB400 | 28 | | JESSSCT | 18 | |
| JESGDTOK | 50 | | JESSSIPC | 80 | |
| JESHASH | 40 | | JESSSIVT | 7C | |
| JESIB650 | 38 | | JESSSREQ | 14 | |
| JESJESFG | 47 | 0 | JESSVERS | 7 | |
| JESJSSNT | 46 | 80 | JESTIOTS | 40 | |
| JESMAXDD | 44 | | JESUASF | 4E | 40 |
| JESMECHK | 5C | | JESUASR | 4E | 80 |
| JESMNTP | 60 | | JESUNALC | 24 | |
| JESMSGT@ | 88 | | JESUNITS | 4 | |
| JESNRSS | 44 | 0 | JESUPLER | 4E | 20 |
| JESNUCBS | 2C | 0 | JESUPLP | 5C | |
| JESPARSE | 70 | | JESVTPC | 84 | |
| JESPCDP | 50 | | JESV2EDT | 4E | 8 |
| JESPEXT | 0 | | JESWAA | 8 | |
| JESPJESN | 1C | 0 | JESXBCHK | 60 | |
| JESPPPT | 68 | | JESXBPUT | 34 | |
| JESPPPTSC | 70 | | JESXB603 | 74 | |
| JESPPPTUS | 6C | | JESXVNSL | 18 | |
| JESPQDIR | 4C | | JES3ACTV | 47 | 20 |
| JESPQMST | 48 | | JES3OUTD | 47 | 10 |
| JESPSUBA | 47 | 80 | | | |
| JESPSUBI | 47 | 40 | | | |
| JESQBSVA | 58 | | | | |
| JESQB551 | 2C | | | | |
| JESQB556 | 30 | | | | |
| JESQMGR | C | | | | |
| JESRECF | 3C | | | | |
| JESRECM | 38 | | | | |
| JESRESQM | 10 | | | | |
| JESRSTRT | 6C | | | | |
| JESRSVEA | 7A | | | | |
| JESRSVEB | 8C | | | | |
| JESRSVEC | 90 | | | | |

JFCB Programming Interface information

Programming Interface information

JFCB

ONLY the following fields are part of the programming interface information:

| | | | |
|-------------|-------------|-------------|--------------|
| • JFCABN | • JFCBQNAM | • JFCFOLD | • JFCPCIR1 |
| • JFCACC | • JFCBSPAC | • JFCFUNC | • JFCPCIR2 |
| • JFCACT | • JFCBSQTY | • JFCFWORD | • JFCPCIX1 |
| • JFCALLOW | • JFCBTRK | • JFCIND | • JFCPCIX2 |
| • JFCALX | • JFCBUFIN | • JFCINOP | • JFCPDS |
| • JFCAMSTR | • JFCBUFL | • JFCINTVL | • JFCPOSID |
| • JFCASA | • JFCBUFMX | • JFCIPLTX | • JFCPRTSP |
| • JFCBABFS | • JFCBUFNO | • JFCKEYLE | • JFCRBIDC |
| • JFCBABS | • JFCBUFOF | • JFCLIMCT | • JFCRBIDO |
| • JFCBABST | • JFCBUFSI | • JFCLRECL | • JFCRCFM |
| • JFCBADBF | • JFCBVLCT | • JFCMAC | • JFCRECFM |
| • JFCBADSP | • JFCBVLSQ | • JFCMAST | • JFCRECV |
| • JFCBAL | • JFCBVOLS | • JFCMIXG | • JFCREDUC |
| • JFCBAVR | • JFCBXPDT | • JFCMOD | • JFCREL |
| • JFCBAXBF | • JFCBWWU | • JFCMODE | • JFCREORG |
| • JFCBBFTA | • JFCCHAR | • JFCMODEO | • JFCRFB |
| • JFCBBFTK | • JFCCOMP | • JFCMODER | • JFCRFO |
| • JFCBBFTR | • JFCCONV | • JFCNCOMP | • JFCRFS |
| • JFCBCEOV | • JFCCPRI | • JFCNCP | • JFCRKP |
| • JFCBCKPT | • JFCCYL | • JFCNEW | • JFCRLSE |
| • JFCBCRDT | • JFCCYLOF | • JFCNL | • JFCROUND |
| • JFCBCTRI | • JFCDEL | • JFCNOCC | • JFCSDNAM |
| • JFCBCYL | • JFCDEN | • JFCNSL | • JFCSDS |
| • JFCBDQTY | • JFCDISP | • JFCNTM | • JFCSEND |
| • JFCBDR LH | • JFCDQDSP | • JFCNWRIT | • JFCSHARE |
| • JFCBDSNM | • JFCDSEQN | • JFCOLD | • JFCSIM |
| • JFCBELNM | • JFCDSORG | • JFCONE | • JFCSKP |
| • JFCBEND | • JFCDSRG1 | • JFCONTIG | • JFCSL |
| • JFCBEXAD | • JFCDSRG2 | • JFCOPEN | • JFCSLCRE |
| • JFCBEXP | • JFCDUAL | • JFCOPTJ | • JFCSLDES |
| • JFCBEXTP | • JFCDWORD | • JFCOPTQ | • JFCSPNO |
| • JFCBFLG1 | • JFCDYN | • JFCORGAM | • JFCSPONE |
| • JFCBFLG3 | • JFCBCD | • JFCORG CX | • JFCSPTHR |
| • JFCBFLSQ | • JFCEQUAL | • JFCORGDA | • JFCSP TWO |
| • JFCBFOUT | • JFCEROPT | • JFCORGGS | • JFCSTACK |
| • JFCBFRID | • JFC EVEN | • JFCORGIS | • JFCSTAND |
| • JFCBFTEK | • JFC EXC | • JFCORGPO | • JFC SUL |
| • JFCBGNCP | • JFC EXT | • JFCORGPS | • JFC THRSH |
| • JFCBIN | • JFCFCBAL | • JFCORG TQ | • JFC TOPT |
| • JFCBLGTH | • JFCFCBID | • JFCORGTR | • JFC TRAN |
| • JFCBLKSI | • JFCFCBVR | • JFCORGTX | • JFC TR EV |
| • JFCBLP | • JFCFEED | • JFCORGU | • JFC TR TCH |
| • JFCBLSR | • JFCFIX | • JFCOUTLI | • JFC TWO |
| • JFCBLSRD | • JFCFMREC | • JFCOUTOP | • JFCUCSID |
| • JFCBLTM | • JFCFNCBD | • JFCOVER | • JFCUCSOP |
| • JFCBLTYP | • JFCFNCBI | • JFCPCI | • JFCUND |
| • JFCB MASK | • JFCFNCBP | • JFCPCIA1 | • JFCVAR |
| • JFCBNTCS | • JFCFNCBR | • JFCPCIA2 | • JFCVARD |
| • JFCBNVOL | • JFCFN CBT | • JFCPCIBT | • JFCVER |
| • JFCBPQTY | • JFCFN CBW | • JFCPCIN1 | • JFCVLDQ |
| • JFCBPROT | • JFCFN CBX | • JFCPCIN2 | • JFCVLDQ1 |

JFCB Programming Interface information

- JFCVLDQ2
- JFCVLDQ3
- JFCVLDQ4
- JFCVLDQ5
- JFCWUMSG
- JFCWVCBD
- JFCWVCIS
- JFCWVCSP
- JFC1600
- JFC200
- JFC556
- JFC6250
- JFC800

End of Programming Interface information

JFCB Heading Information

| | |
|----------------------------|--|
| Common Name: | Job File Control Block |
| Macro ID: | IEFJFCBN |
| DSECT Name: | INFMJFCB (No DSECT generated) |
| Owning Component: | Interpreter (SC1B9) |
| Eye-Catcher ID: | JFCB |
| | Offset: -4 (SWA prefix) |
| | Length: 4 bytes |
| Storage Attributes: | Subpool: 236 or 237 (SWA), 241 for MSTR address space |
| | Key: 1 |
| | Residency: Any |
| Size: | 192 bytes (176 bytes mapped) |
| Created by: | Interpreter and Dynamic Allocation |
| Pointed to by: | <ul style="list-style-type: none"> - TIOEJFCB field (SVA) of the TIOT data area (DD entry JFCB) - SWBUFPtr field in IEFZB506 upon return from IEFQMREQ macro (Preferred method of SVA translation) - Output from DFSMS RDJFCB Macro - SWBLKPtr field in IEFZB505 upon return from SWAREQ macro |
| Serialization: | None for Interpreter, SVC 99 processing for Dynamic Allocation and Unallocation |
| Function: | The Job Management routines construct a JFCB for each ddname specified in a job step. In a concatenated data set, each of the multiple DD cards is given a ddname of blanks. A JFCB is then concatenated for each DD, including those with a name of blanks. It is brought into virtual storage when the data set is opened. Information in a JFCB may be modified during OPEN processing. |

JFCB Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|--------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | | |
| 0 | (0) | SIGNED | 4 | (0) | |
| 0 | (0) | X'0' | 0 | INFMJFCB | *** |
| 0 | (0) | CHARACTER | 8 | JFCBQNAM (0) | - PROCESS QUEUE NAME (QNAME=) (TCAM) |
| 0 | (0) | CHARACTER | 44 | JFCBDSNM | - DATA SET NAME (DSNAME=) |
| 44 | (2C) | CHARACTER | 7 | JFCIPLTX (0) | - MODULE NAME OF NETWORK CONTROL PROGRAM (DCB=IPLTXID=) (TCAM) ICB391 |
| 44 | (2C) | CHARACTER | 8 | JFCBLSRD (0) | - Target DDNAME for Batch LSR when JFCBLSR indicator is ON |
| 44 | (2C) | CHARACTER | 8 | JFCBELNM | - DSNAME= ELEMENT (MEMBER) NAME (DSNAME=x(member)) MEMBER NAME OR RELATIVE GENERATION NUMBER. TYPE OF AREA (INDEX, PRIME OR OVERFLOW) FOR AN INDEXED SEQUENTIAL DATA SET ONLY. |
| 52 | (34) | BITSTRING | 1 | JFCBTSDM | - JOB MANAGEMENT/DATA MANAGEMENT INTERFACE |
| | | 1... | | JFCCAT | "X'80" - DATA SET IS CATALOGED |
| | | .1... | | JFCVSL | "X'40" - VOLUME SERIAL LIST HAS BEEN CHANGED |
| | | ..1. | | JFCSDS | "X'20" - SUBSYSTEM DATA SET - This dataset is either a SYSIN/SYSOUT dataset, or SUBSYS= was specified on the DD statement |

JFCB Map

| Offsets | | | | | |
|---------|------|------------|-----|--------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| | | ...1 | | JFCTTR | "X'10" - A JOB STEP IS TO BE RESTARTED. USE JFCBOTTR INSTEAD OF DS1LSTAR FIELD TO REPOSITION DATA SET IF AUTOMATIC STEP RESTART OCCURS. (THIS JOB HAD ABEND PROCESSING FOR A DATA SET OPENED FOR MOD.) |
| | | 1... | | JFCNWRIT | "X'08" - DO NOT WRITE BACK THE JFCB DURING OPEN PROCESSING |
| | |1.. | | JFCNDSCB | "X'04" - DO NOT MERGE DSCB OR LABEL FIELDS INTO THIS JFCB |
| | |1. | | JFCNDCB | "X'02" - DO NOT MERGE DCB FIELDS INTO THIS JFCB |
| | |1 | | JFCPAT | "X'01" - THE PATTERNING DSCB IS COMPLETE |
| 53 | (35) | CHARACTER | 3 | JFCBDSCB | - TTR OF THE FORMAT 1 DSCB FOR DATA SET PART ON THE FIRST VOLUME OF THE DATA SET |
| 56 | (38) | CHARACTER | 4 | JFCFCBID (0) | - FORMS CONTROL BUFFER IMAGE ID (FCB=name) - FORMS CONTROL BUFFER IMAGE ID (3211 Printer) - OR DATA PROTECTION IMAGE ID (3525 Card punch WITH THE READ AND PRINT FEATURES) - OR FORMAT RECORD ID MDC007 |
| 56 | (38) | CHARACTER | 4 | JFCBFRID (0) | - ** RESERVED-O ** (DCB=FRID=) (3886 dev) MDC024 |
| 56 | (38) | CHARACTER | 4 | JFCRBIDO (0) | - THE PHYSICAL LOCATION ON THE TAPE OF THE FIRST STANDARD-LABEL HEADER RECORD TO BE PROCESSED BY OPEN |
| 56 | (38) | BITSTRING | 2 | JFCAMCRO | - CHECKPOINT/RESTART OPTION INDICATORS (AMP=('CROPS=')) (VSAM) ICB438 |
| | | | | | Comment |

X'80' - RCK - (default) perform both the data-erase and the data set post-checkpoint modification test
X'40' - NCK - No data set post-checkpoint modification test
X'20' - NRE - No data-erase test
X'10' - NRC - No data-erase test and No data set post-checkpoint modification test

| | | | | | |
|----|------|--------|---|----------|--|
| | | | | | End of Comment |
| 58 | (3A) | SIGNED | 2 | JFCAMSTR | - NUMBER OF STRINGS (AMP=('STRNO=num')) (VSAM) ICB438 |
| 60 | (3C) | SIGNED | 2 | JFCBADBF | - NUMBER OF DATA BUFFERS (AMP=('BUFND=num')) (VSAM) ICB438 |
| 62 | (3E) | SIGNED | 2 | JFCNLREC | - LOGICAL RECORD LENGTH (VSAM) ICB438 |
| | | | | | Comment |

The tape device selection information is used to communicate device selection information for tape library requests. The information is only valid for tape library requests, but should not be used to test whether the DD is a tape library allocation (a zero value doesn't mean it's a non-tape library request). The values assigned to JFCTRKNO, JFCMEDIA, JFCOMPTY and JFCSPECL are hex values rather than bit values.

| | | | | | |
|----|------|-----------|---|--------------|--|
| | | | | | End of Comment |
| 64 | (40) | BITSTRING | 2 | JFCBTDSI (0) | - Tape Device Selection Information |
| 64 | (40) | BITSTRING | 1 | JFCTDSI1 | - TDSI byte 1 |
| | | 1111 | | JFCTRKNO | "X'F0" - Track recording technique |
|  |  | .... .... |  | JFCNOREC | "X'00" - Recording technology unknown or not specified |
| | | ...1 | | JFC18TRK | "X'10" - 18 track recording mode - (hex value) |
| | | ..1. | | JFC36TRK | "X'20" - 36 track recording mode - (hex value) |
| | | ..11 | | JFC128TK | "X'30" - 128 track recording mode - (hex value) |
| | | ..1. | | JFC256TK | "X'40" - 256 track recording mode - (hex value) |
| | | 1111 | | JFCMEDIA | "X'0F" - Media type |
|  |  | .... .... |  | JFCNOMED | "X'00" - Media type unknown or not specified |

| Offsets | | | | | |
|--|------|--------------|-----|--------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 65 | (41) |1 | 1 | JFCBMED1 | "X'01'" - Cartridge System Tape - (hex value) |
| | |1. | | JFCBMED2 | "X'02'" - Enhanced Capacity Cartridge System Tape - (hex value) |
| | |11 | | JFCBMED3 | "X'03'" - 1/2 inch / 320 meter particle media |
| | |1.. | | JFCBMED4 | "X'04'" - Reserved for future media type |
| | |1.1 | | JFCBMED5 | "X'05'" - Reserved for future media type |
| | |11. | | JFCBMED6 | "X'06'" - Reserved for future media type |
| | |111 | | JFCBMED7 | "X'07'" - Reserved for future media type |
| | |1... | | JFCBMED8 | "X'08'" - Reserved for future media type |
| | | 1111 | | JFCTDSI2 | - TDSI byte 2 |
| | | | | JFCOMPTY | "X'F0'" - Compaction type. Does not necessarily mean TRTCH=COMP was specified. |
|  |  | .... .... |  | JFCCMPNS | "X'00'" - Compaction type unknown or not specified |
| | |1 | | JFCNOCMP | "X'10'" - Compaction not used - (hex value) |
| | | ...1. | | JFCBIDRC | "X'20'" - Compaction type=IDRC - (hex value) |
| | | ...1. | | JFCBCMPY | "X'20'" - Compaction = YES - (hex value) |
| | | 1111 | | JFCSPECL | "X'0F'" - Special attributes |
|  |  | .... .... |  | JFCNOSPC | "X'00'" - Volume has no special attributes |
| | |1 | | JFCRDCOM | "X'01'" - Read compatibility attribute. When set, it indicates that the volumes will be used for input only and read compatible devices can be added to the device eligibility - (hex value) |
| 66 | (42) | BITSTRING | 1 | JFCBLTYP | - LABEL TYPE (LABEL=) |
| | | 1... | | JFCDSEQN | "X'80'" - DATASET SEQUENCE NUMBER Specified (LABEL=(ds-seq#,label)) |
| | | ...1. | | JFCBAL | "X'40'" - AL - ISO/ANSI (ver 1) ISO/ANSI/FIPS (ver 3) |
| Comment | | | | | |
| X'48' - AUL - User labels ans AL type labels | | | | | |
| End of Comment | | | | | |
| 67 | (43) | ...1. | 3 | JFCBLTM | "X'20'" - LTM - LEADING TAPE MARK NOTE: OPEN/CLOSE/EOV AND RESTART must space over a tape mark if one exists. ICB398 |
| | | ...1 | | JFCBLP | "X'10'" - BLP - BYPASS LABEL PROCESSING |
| | | 1.1. | | JFCSUL | "X'0A'" - SUL - STANDARD and USER LABELs |
| | |1.. | | JFCNSL | "X'04'" - NSL - NONSTANDARD LABEL |
| | |1. | | JFCSL | "X'02'" - SL - STANDARD LABEL (default) |
| | |1 | | JFCNL | "X'01'" - NL - NO LABEL |
| 67 | (43) | CHARACTER | 3 | JFCBOTTR (0) | - DASD MOD DATA SET - IF AUTOMATIC STEP RESTART WAS REQUESTED, TTR OF THE END-OF-DATA INDICATOR EXISTING WHEN THE DATA SET WAS FIRST OPENED DURING THE ORIGINAL EXECUTION OF THE CURRENT STEP |
| 67 | (43) | SIGNED | 1 | JFCBUFOF | - TAPE DATA SET - THIS FIELD CONTAINS THE BUFFER OFFSET (DCB=BUFOFF=) |
| | | 1... | | JFCBFOFL | "X'80'" - L - Specifies that the block prefix is 4bytes and contains the block length NOTE: If the BUFOFF=number format was specified, JFCBUFOF will contain the length of the block prefix (in bytes) |
| 68 | (44) | BITSTRING | 1 | JFCFUNC (0) | - FUNCTION INDICATORS (DCB=FUNC=) For the 3505 Card reader and the 3525 Card punch ICB392 |
| | | 1... | | JFCFNCBI | "X'80'" - I - INTERPRET (PUNCH AND PRINT) ICB392 |
| | | ...1. | | JFCFNGBR | "X'40'" - R - READ ICB392 |
| | | ...1. | | JFCFNGBP | "X'20'" - P - PUNCH ICB392 |
| | | ...1 | | JFCFNGBW | "X'10'" - W - PRINT ICB392 |
| | | 1... | | JFCFNGBD | "X'08'" - D - DATA PROTECTION - PUNCH ICB392 |
| | |1.. | | JFCFNGBX | "X'04'" - X - THIS DATA SET IS TO BE PRINTED. THIS MAY BE CODED WITH PW OR RPW TO DISTINGUISH THE DATA SET TO BE PRINTED FROM THE DATA SET TO BE PUNCHED. ICB392 |
| | |1. | | JFCFNGBT | "X'02'" - T - TWO-LINE PRINT SUPPORT REQUEST. THE SECOND PRINT LINE IS LOCATED ON CARD LINE THREE. ICB392 |

JFCB Map

| Offsets | | | | | |
|---------|------|-------------------------------------|-----|----------------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 68 | (44) |1 SIGNED | 2 | JFCRSV31 JFCBFLSQ | "X'01'","C'X'" RESERVED - LABEL= FILE (DATA SET) SEQUENCE NUMBER (LABEL=(ds-seq#,)) |
| 70 | (46) | SIGNED | 2 | JFCBVLSQ | - VOLUME= VOLUME SEQUENCE NUMBER (VOL=(,vol-seq#,)) |
| 72 | (48) | CHARACTER | 8 | JFCBMASK (0) | - DATA MANAGEMENT MASK |
| 72 | (48) | BITSTRING | 5 | JFCBOPS1 | - OPEN ROUTINE INTERNAL SWITCHES |
| 77 | (4D) | BITSTRING | 1 | JFCBFLG1 | - FLAG BYTE |
| | | 1... .... .1.. .... ..1. | | JFCSTAND JFCSLCRE JFCSLDES | "X'80'" - VOLUME LABEL PROCESSING STANDARD "X'40'" - CREATION OF A STANDARD LABEL IS NECESSARY "X'20'" - DESTRUCTION OF A STANDARD LABEL IS NECESSARY |
| | | ...1 1111.... ...1 | | JFCDUAL JFCOPEN JFCBPWBP | "X'10'" - DUAL-DENSITY CHECK DETECTED "X'0F'" - OPEN ROUTINE INTERNAL SWITCHES "X'01'" - PASSWORD BYPASS INDICATOR MDC010 |
| 78 | (4E) | BITSTRING | 1 | JFCBFLG2 | - FLAG BYTE OF OPEN SWITCHES |
| | | 1... | | JFCINOP | "X'80'" - TREAT THE INOUT OPTION OF OPEN AS INPUT (LABEL=(,,IN)) |
| | | .1.. | | JFCOUTOP | "X'40'" - TREAT THE OUTIN OPTION OF OPEN AS OUTPUT (LABEL=(,,OUT)) |
| | | ..1. | | JFCDEFER | "X'20'" - SET ONLY IN A JFCB RECORDED IN A DATA SET DESCRIPTOR RECORD (DSDR) BY THE CHECKPOINT ROUTINE. INDICATES THAT THE DATA SET RELATED TO THE JFCB IS BEING PROCESSED SEQUENTIALLY, AT THE CHECKPOINT, ON A VOLUME OTHER THAN THE VOLUME ON WHICH PROCESSING BEGAN IN THE CURRENT STEP. WHEN RESTART OCCURS, THIS BIT CAUSES DEFERRED VOLUME MOUNTING. |
| | | ..1. | | JFCNRPS | "X'20'" - USE BY OPEN ROUTINES - SET TO INDICATE THAT THIS DATA SET RESIDES ON A NON-RPS DEVICE. RESET TO ZERO WHEN OPEN PROCESSING IS COMPLETED. |
| | | ...1 | | JFCMODNW | ICB495 "X'10'" - DISPOSITION OF THIS DATA SET HAS BEEN CHANGED FROM MOD TO NEW. DISPOSITION (IN JFCBIND2) WILL BE RESTORED TO MOD AFTER OPEN. |
| | | 1... | | JFCSDRPS | "X'08'" - USE SEARCH DIRECT FOR ROTATIONAL POSITION SENSING (RPS) DEVICES ICB398 |
| | |1.. | | JFCTRACE | "X'04'" - GTF TRACE IS TO OCCUR DURING OPEN/CLOSE/EOV AND DYNAMIC ALLOCATION PROCESSING OF DCB (AMP='TRACE') ICB392 |
| | |1. | | JFCBBUFF | "X'02'" - If ON, JFCBUFOF contains either a user-coded buffer offset or invalid data resulting from a JFCB-to-JFCB merge. If OFF, JFCBOTTR (containing structure for JFCBUFOF) is available to store the TTR of the DSCB for the data set represented by this JFCB. |
| | |1 | | JFCRCTLG | "X'01'" - OPEN HAS UPDATED THE TTR. SCHEDULER STEP TERMINATION ROUTINE IS TO RECATALOG THIS DATA SET AND PLACE IN THE CATALOG ENTRY THE DSCB TTR CONTAINED IN JFCBDSCB IF THIS DATA SET IS CATALOGED. |
| 79 | (4F) | BITSTRING | 1 | JFCBOPS2 | - OPEN ROUTINE INTERNAL SWITCHES |
| 80 | (50) | CHARACTER | 3 | JFCBCRDT | - DATA SET CREATION DATE in the format: 'YYDDDD' in which the year is an offset from 1900, i.e. 1989 is 1900 + 89. The 89 in hex is 59, in this case January 8, 1989 would be 590008. This date is the date of the Allocation of the data set and is not valid until the Allocation is processing. |
| 83 | (53) | CHARACTER | 3 | JFCBXPDT | - DATA SET EXPIRATION DATE (LABEL=EXPDT=) Stored in the same format as the Creation Date This field may alternately contain the date that is calculated by adding the Retention Period (LABEL=RETPD=) to the Creation Date (JFCBCRDT). NOTE: JFCBXPDT is not valid until the data set is actually allocated. |
| 86 | (56) | BITSTRING | 1 | JFCBIND1 | - INDICATOR BYTE 1 |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|--------------|-----|--------------|---|
| Dec | Hex | | | | |
| 87 | (57) | 11.. | 1 | JFCRLSE | "X'C0'" - RELEASE EXTERNAL STORAGE (SPACE=(,),RLSE)) |
| | | ..11 | | JFCLOC | "X'30'" - DATA SET HAS BEEN LOCATED |
| | | 11.. | | JFCADDED | "X'0C'" - NEW VOLUME HAS BEEN ADDED TO THE DATA SET |
| | |1. | | JFCGDG | "X'02'" - DATA SET IS A MEMBER OF A GENERATION DATA GROUP |
| | |1 | | JFCPDS | "X'01'" - DATA SET IS A MEMBER OF A PARTITIONED DATA SET |
| | | ..1.. | | JFCBRLSE | "X'40'" - ** RESERVED-O ** |
| | | ...1 | | JFCBLOCT | "X'10'" - ** RESERVED-O ** |
| | |1.. | | JFCBNEWV | "X'04'" - ** RESERVED-O ** |
| | |1 | | JFCBPMEM | "X'01'" - ** RESERVED-O ** |
| | | 11.. | | JFCBIND2 | - INDICATOR BYTE 2 |
| | | 11.. | | JFCDISP | "X'C0'" - BIT PATTERN FOR NEW, MOD, OLD |
| | | 1... | | JFCNEW | "X'C0'" - NEW DATA SET (DISP=NEW) |
| | | 1... | | JFCMOD | "X'80'" - MOD DATA SET (DISP=MOD) |
| | | ..1.. | | JFCOLD | "X'40'" - OLD DATA SET (DISP=OLD) |
| | | ..11 | | JFCBRWPW | "X'30'" - PASSWORD IS REQUIRED TO WRITE BUT NOT TO READ (DATA SET SECURITY) (LABEL=(,NOPWREAD)) |
| | | ...1 | | JFCSECUR | "X'10'" - PASSWORD IS REQUIRED TO READ OR TO WRITE (DATA SET SECURITY) (LABEL=(,PASSWORD)) |
| | | 1... .. | | JFCSHARE | "X'08'" - SHARED DATA SET |
| | |1.. | | JFCENT | "X'04'" - DELETE THIS JFCB BEFORE ALLOCATION FOR A RESTARTED GENERATION DATA GROUP |
| | |1. | | JFCREQ | "X'02'" - STORAGE VOLUME REQUESTED |
| | |1 | | JFCTEMP | "X'01'" - DATA SET WILL BE DELETED WHEN JOB COMPLETES WITH A NORMAL CONDITION CODE |
| | | ..1.. | | JFCBSTAT | "X'40'" - ** RESERVED-O ** |
| | | ...1 | | JFCBSCTY | "X'10'" - ** RESERVED-O ** |
| | |1.. | | JFCBGDGA | "X'04'" - ** RESERVED-O ** |
| 88 | (58) | ADDRESS | 4 | JFCAMPTR (0) | - POINTER TO AMPBLK FOR ADDITIONAL VSAM PARAMETERS ICB438 |
| 88 | (58) | CHARACTER | 3 | JFCAMSPA (0) | - SPA OF AMPX CONTROL BLOCK EXTENSION TO THE JFCB YA05186 |
| 88 | (58) | BITSTRING | 1 | JFCBUFNO (0) | - NUMBER OF BUFFERS REQUIRED FOR THIS DATA SET (DCB=BUFNO=) |
| 88 | (58) | BITSTRING | 1 | JFCBUFIN (0) | - INPUT Buffers (DCB=BUFIN=) BITS 0-3 CONTAIN THE NUMBER OF BUFFERS ASSIGNED INITIALLY FOR RECEIVING OPERATIONS FOR EACH LINE IN A LINE GROUP (TCAM) |
| 88 | (58) | BITSTRING | 1 | JFCBFOUT (0) | - OUTPUT Buffers (DCB=BUFOUT=) BITS 4-7 CONTAIN THE NUMBER OF BUFFERS ASSIGNED INITIALLY FOR SENDING OPERATIONS FOR EACH LINE IN A LINE GROUP (TCAM) |
| 88 | (58) | BITSTRING | 1 | JFCBUFRQ | - ** RESERVED-O ** (DCB=BUFRQ=) |
| 89 | (59) | SIGNED | 1 | JFCBGNCP (0) | - (DCB=GNCP=) FOR GAM, THIS FIELD IS USED FOR THE NUMBER OF IOB'S CONSTRUCTED BY THE OPEN ROUTINE. MAXIMUM NUMBER IS 99. MDC025 |
| 89 | (59) | BITSTRING | 1 | JFCBHIAR (0) | - ** RESERVED-O ** (DCB=HIARCHY=) |
| 89 | (59) | 1... ..1.. | 1 | JFCHIER | "X'84'" - ** RESERVED-O ** |
| | |1.. | | JFCHIER1 | "X'04'" - ** RESERVED-O ** |
| | |1. | | JFCBFALN (0) | - BUFFER ALIGNMENT (DCB=BFALN=) |
| 89 | (59) |1. | 1 | JFCDWORD | "X'02'" - D - DOUBLE WORD BOUNDARY |
| | |1 | | JFCFWORD | "X'01'" - F - FULL WORD BOUNDARY |
| | | 1... | | JFCBFTEK | - BUFFERING TECHNIQUE (DCB=BFTEK=) |
| 89 | (59) | ..1.. | 1 | JFCSIM | "X'40'" - S - SIMPLE BUFFERING |
| | | ..11. | | JFCBBFTA | "X'60'" - A - AUTOMATIC RECORD AREA CONSTRUCTION FOR QSAM LOCATE MODE PROCESSING OF SPANNED RECORDS. DURING LOGICAL RECORD INTERFACE PROCESSING. OPEN IS TO CONSTRUCT A RECORD AREA IF IT AUTOMATICALLY CONSTRUCTS BUFFERS. |

JFCB Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|--------------|--|
| Dec | Hex | | | | |
| | | ..1. | | JFCBBFTR | "X'20'" - R - FOR BSAM CREATE BDAM PROCESSING OR BDAM PROCESSING OF UNBLOCKED SPANNED RECORDS, SOFTWARE TRACK OVERFLOW. OPEN FORMS A SEGMENT WORK AREA POOL AND STORES THE ADDRESS OF THE SEGMENT WORK AREA CONTROL BLOCK IN THE DCBEOBW FIELD OF THE DATA CONTROL BLOCK. WRITE USES A SEGMENT WORK AREA TO WRITE A RECORD AS ONE OR MORE SEGMENTS. - BDAM INPUT PROCESSING OF UNBLOCKED SPANNED RECORDS WITH KEYS, RECORD OFFSET PROCESSING. READ READS ONE RECORD SEGMENT INTO THE RECORD AREA. THE FIRST SEGMENT OF A RECORD IS PRECEDED IN THE RECORD AREA BY THE KEY. SUBSEQUENT SEGMENTS ARE AT AN OFFSET EQUAL TO THE KEY LENGTH. |
| | | ...1 | | JFCEXC | "X'10'" - E - EXCHANGE BUFFERING |
| | | 1... | | JFCDYN | "X'08'" - D - DYNAMIC BUFFERING |
| 90 | (5A) | SIGNED | 2 | JFCBUFL | - BUFFER LENGTH (DCB=BUFL=) |
| 92 | (5C) | BITSTRING | 1 | JFCEROPT | - ERROR OPTION (DCB=EROPT=) DISPOSITION OF PERMANENT ERRORS IF USER RETURNS FROM A SYNCHRONOUS ERROR EXIT. (QSAM) |
| | | 1... | | JFCACC | "X'80'" - ACC - ACCEPT |
| | | .1.. | | JFCSKP | "X'40'" - SKP - SKIP |
| | | ..1. | | JFCABN | "X'20'" - ABE - ABNORMAL END OF TASK |
| | | ...1 | | JFCTOPT | "X'10'" - T - ON-LINE TERMINAL TEST (BTAM) ICB349 |
| | | 1... | | JFCRSV02 | "X'08'",C'X'" RESERVED |
| | |1.. | | JFCRSV03 | "X'04'",C'X'" RESERVED |
| | |1.. | | JFCRSV04 | "X'02'",C'X'" RESERVED |
| | |1 | | JFCRSV05 | "X'01'",C'X'" RESERVED |
| 93 | (5D) | CHARACTER | 1 | JFCTRTCH (0) | - TAPE RECORDING TECHNIQUE (DCB=TRTCH=) |
| | | ..1. ..11 | | JFCEVEN | "X'23'" - E - EVEN PARITY (7-track) |
| | | ..11 1.11 | | JFCTRAN | "X'3B'" - T - EOD/EBCDIC TRANSLATION (7-track) |
| | | ...1 ..11 | | JFCCONV | "X'13'" - C - DATA CONVERSION (7-track) |
| | | ..1. 1.11 | | JFCTREV | "X'2B'" - ET - EVEN PARITY AND TRANSLATION (7-track) |
| | | 1... | | JFCCOMP | "X'08'" - COMP - ENHANCED 3480 DATA RECORDING |
| | |1.. | | JFCNCOMP | "X'04'" - NOCOMP - ENHANCED 3480 DATA RECORDING |
| | | .1.. .1.. | | JFC1TRAK | "X'42'" - TBD - RESERVED FUTURE DEVELOPMENT |
| | | 1... .1.. | | JFC2TRAK | "X'82'" - TBD - RESERVED FUTURE DEVELOPMENT |
| | | 11.. .1.. | | JFC4TRAK | "X'C2'" - TBD - RESERVED FUTURE DEVELOPMENT |
| 93 | (5D) | BITSTRING | 1 | JFCKEYLE (0) | - DIRECT ACCESS KEY LENGTH (DCB=KEYLEN=) |
| 93 | (5D) | BITSTRING | 1 | JFCCODE (0) | - ** RESERVED-O ** (DCB=CODE=) |
| | | 1... | | JFCNOCON | "X'80'" - N - NO CONVERSION ** RESERVED-O ** |
| | | .1.. | | JFCBCD | "X'40'" - I - IBM BCD ** RESERVED-O ** |
| | | ..1. | | JFCFRI | "X'20'" - F - FRIDEN ** RESERVED-O ** |
| | | ...1 | | JFCBUR | "X'10'" - B - BURROUGHS ** RESERVED-O ** |
| | | 1... | | JFCNCR | "X'08'" - C - NATIONAL CASH REGISTER ** RESERVED-O ** |
| | |1.. | | JFCASCII | "X'04'" - A - ASCII (8-TRACK) ** RESERVED-O ** |
| | |1.. | | JFCTTY | "X'02'" - T - TELETYPE ** RESERVED-O ** |
| | |1 | | JFCRSV32 | "X'01'",C'X'" RESERVED |
| 93 | (5D) | BITSTRING | 1 | JFCMODE (0) | - MODE OF OPERATION (CARD READER, CARD PUNCH) (DCB=MODE=) ICB394 |
| | | 1... | | JFCBIN | "X'80'" - C - Card Image (COLUMN BINARY MODE) |
| | | .1.. | | JFCEBCD | "X'40'" - E - EBCDIC MODE |
| | | ..1. | | JFCMODEO | "X'20'" - O - OPTICAL MARK READ MODE (3505 ONLY) ICB394 |
| | | ...1 | | JFCMODER | "X'10'" - R - READ COLUMN ELIMINATE MODE (3505 AND 3525 WITH READ FEATURE) ICB394 |
| | | 1... | | JFCRSV06 | "X'08'",C'X'" RESERVED |
| | |1.. | | JFCRSV07 | "X'04'",C'X'" RESERVED |
| 93 | (5D) | BITSTRING | 1 | JFCSTACK (0) | - STACKER SELECTION (CARD READER, CARD PUNCH) (DCB=STACK=) |
| | |1.. | | JFCTWO | "X'02'" - 2 - STACKER TWO |
| | |1 | | JFCONE | "X'01'" - 1 - STACKER ONE |
| 93 | (5D) | BITSTRING | 1 | JFCPRTSP | - NORMAL PRINTER SPACING (DCB=PRTSP=) |
| | | ...1 1..1 | | JFCSPTHR | "X'19'" - 3 - SPACE THREE LINES |

| Offsets | | | | | |
|---|------|------------|-----|--------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 94 | (5E) | ...1 ...1 | 1 | JFCSPTWO | "X'11'" - 2 - SPACE TWO LINES |
| | | 1..1 | | JFCSPONE | "X'09'" - 1 - SPACE ONE LINE |
| | |1 | | JFCSPNO | "X'01'" - 0 - NO SPACING |
| | | | | JFCDEN | - TAPE DENSITY - 2400/3400 SERIES MAGNETIC TAPE UNITS (DCB=DEN=) |
| | |11 | | JFC200 | "X'03'" - 0 - 200 BPI (7-track) |
| | | .1.. ..11 | | JFC556 | "X'43'" - 1 - 556 BPI (7-track) |
| | | 1... ..11 | | JFC800 | "X'83'" - 2 - 800 BPI (7-track and 9-track) |
| 95 | (5F) | 11.. ..11 | 3 | JFC1600 | "X'C3'" - 3 - 1600 BPI (9-track) |
| | | 11.1 ..11 | | JFC6250 | "X'D3'" - 4 - 6250 BPI (9-track) ICB474 |
| | | SIGNED | | JFCBABFS (0) | - TOTAL BUFFER SIZE FOR ALL VSAM BUFFERS (AMP=('BUFSP=num')) (VSAM) ICB438 |
| 95 | (5F) | CHARACTER | 3 | JFCLIMCT (0) | - SEARCH LIMIT (BDAM) (DCB=LIMCT=) (value stored at offset JFCLIMCT+1) |
| 95 | (5F) | CHARACTER | 1 | | - RESERVED |
| 96 | (60) | CHARACTER | 2 | JFCTRKBL | - DATA SET OPENED FOR MOD - IF AUTOMATIC STEP RESTART WAS REQUESTED, TRACK BALANCE EXISTING WHEN THE DATA SET WAS FIRST OPENED DURING THE ORIGINAL EXECUTION OF THE CURRENT STEP |
| 98 | (62) | BITSTRING | 2 | JFCDSORG (0) | - DATA SET ORGANIZATION |
| 98 | (62) | BITSTRING | 1 | JFCDSRG1 | - BYTE 1 OF JFCDSORG (DCB=DSORG=) |
| | | 1... | | JFCORGIS | "X'80'" - IS - INDEXED SEQUENTIAL |
| Comment | | | | | |
| X'81' - ISU - INDEXED SEQUENTIAL Unmovable | | | | | |
| End of Comment | | | | | |
| | | .1.. | | JFCORGPS | "X'40'" - PS - PHYSICAL SEQUENTIAL |
| Comment | | | | | |
| X'41' - PSU - PHYSICAL SEQUENTIAL Unmovable | | | | | |
| End of Comment | | | | | |
| | | ..1. | | JFCORGDA | "X'20'" - DA - DIRECT ACCESS |
| Comment | | | | | |
| X'21' - DAU - DIRECT ACCESS Unmovable | | | | | |
| End of Comment | | | | | |
| | | ...1 | | JFCORGCX | "X'10'" - CX - COMM. LINE GROUP (BTAM,QTAM) MDC011 |
| | | 1.. | | JFCORGCQ | "X'08'" - CQ - ** RESERVED-O ** MDC012 |
| | |1.. | | JFCORGMQ | "X'04'" - MQ - ** RESERVED-O ** MDC013 |
| | |1. | | JFCORGPO | "X'02'" - PO - PARTITIONED |
| Comment | | | | | |
| X'03' - POU - PARTITIONED Unmovable | | | | | |
| End of Comment | | | | | |
| | |1 | | JFCORGU | "X'01'" - ..U - UNMOVABLE - THE DATA CONTAINS LOCATION DEPENDENT INFORMATION (used in conjunction with other settings) |
| 99 | (63) | BITSTRING | 1 | JFCDSRG2 | - BYTE 2 OF JFCDSORG (DCB=DSORG= cont.) |
| | | 1... | | JFCORGGG | "X'80'" - GS - GRAPHICS |
| | | .1.. | | JFCORGTX | "X'40'" - - TCAM LINE GROUP MDC014 |
| | | ..1. | | JFCORGTQ | "X'20'" - - TCAM MESSAGE QUEUE MDC015 |
| | | ...1 | | JFCRSV13 | "X'10',,C'X'" RESERVED, BINARY ZERO |
| | | 1.. | | JFCORGAM | "X'08'" - - VSAM ICB438 |
| | |1.. | | JFCORGTR | "X'04'" - - TCAM 3705 MDC016 |
| | |1. | | JFCRSV15 | "X'02',,C'X'" RESERVED, BINARY ZERO |
| | |1 | | JFCRSV16 | "X'01',,C'X'" RESERVED, BINARY ZERO |

JFCB Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|--------------------|------|------------|-----|------------|--|
| Dec | Hex | | | | |
| 100 | (64) | BITSTRING | 1 | JFCRECFM | - RECORD FORMAT (DCB=RECFM=) (AMP=('RECFM=')) |
| | | 111. | | JFCRCFM | "X'E0" - - RECORD FORMAT (USASI/USASCII) |
| | | 11.. | | JFCFMREC | "X'C0" - - HIGH-ORDER TWO BITS OF JFCRECFM TO BE TESTED FOR RECORD FORMAT |
| | | 11.. | | JFCUND | "X'C0" - U - UNDEFINED |
| | | 1... | | JFCFIX | "X'80" - F - FIXED |
| | | .1.. | | JFCVAR | "X'40" - V - VARIABLE |
| | | .1. | | JFCVARD | "X'20" - D - VARIABLE (FORMAT D FOR USASI/USASCII) |
| | | .1. | | JFCRFO | "X'20" - T - TRACK OVERFLOW |
| | | ...1 | | JFCRFB | "X'10" - B - BLOCKED - MAY NOT OCCUR WITH UNDEFINED |
| | | 1... | | JFCRFS | "X'08" - S - FOR FIXED LENGTH RECORD FORMAT, STANDARD BLOCKS. NO TRUNCATED BLOCKS OR UNFILLED TRACKS ARE EMBEDDED IN THE DATA SET. FOR VARIABLE LENGTH RECORD FORMAT, SPANNED RECORDS. |
| | |11. | | JFCCHAR | "X'06" - - CONTROL CHARACTER |
| | |1.. | | JFCASA | "X'04" - A - AMERICAN NATIONAL STANDARD (ASA) CONTROL CHARACTER (IOS/ANSI) |
| | |1. | | JFCMAC | "X'02" - M - MACHINE CODE CONTROL CHARACTER |
|  |  | .... .... |  | JFCNOCC | "X'00" - - NO CONTROL CHARACTER |
| 101 | (65) | BITSTRING | 1 | JFCOPTCD | - OPTION CODES (DCB=OPTCD=) |
| Comment | | | | | |
| QSAM - BSAM - BPAM | | | | | |
| End of Comment | | | | | |
| | | 1... | | JFCWVCSP | "X'80" - W - WRITE VALIDITY CHECK |
| | | .1.. | | JFCALLOW | "X'40" - U - ALLOW A DATA CHECK CAUSED BY AN INVALID CHARACTER (1403 PRINTER WITH UCS FEATURE) |
| | | .1. | | JFCPCIBT | "X'20" - C - CHAINED SCHEDULING USING THE PROGRAM CONTROLLED INTERRUPTION |
| | | ...1 | | JFCBCKPT | "X'10" - H - BYPASS EMBEDDED DOS CHECKPOINT RECORDS ON TAPE ICB398 |
| | | 1... | | JFCRSV18 | "X'08',C'X'" RESERVED |
| | |1.. | | JFCREDUC | "X'04" - Z - USE REDUCED ERROR RECOVERY PROCEDURE (MAGNETIC TAPE) (EXCP ALSO) |
| | |1.. | | JFCSRCHD | "X'04" - - USE SEARCH DIRECT (SD), INSTEAD OF SEARCH PREVIOUS, ON ROTATIONAL POSITION SENSING (RPS) DEVICE. (DIRECT ACCESS) |
| | |1. | | JFCRSV21 | "X'02',C'X'" RESERVED |
| | |1 | | JFCOPTJ | "X'01" - J - 3800 CONTROL CHARACTER (MDC301) |
| Comment | | | | | |
| BISAM - QISAM | | | | | |
| End of Comment | | | | | |
| | | 1... | | JFCWVCIS | "X'80" - W - WRITE VALIDITY CHECK |
| | | .1.. | | JFCRSV17 | "X'40',C'X'" RESERVED |
| | | .1. | | JFCMAST | "X'20" - M - MASTER INDEXES |
| | | ...1 | | JFCIND | "X'10" - I - INDEPENDENT OVERFLOW AREA |
| | | 1... | | JFCCYL | "X'08" - Y - CYLINDER OVERFLOW AREA |
| | |1.. | | JFCRSV19 | "X'04',C'X'" RESERVED |
| | |1. | | JFCDEL | "X'02" - L - DELETE OPTION |
| | |1 | | JFCREORG | "X'01" - R - REORGANIZATION CRITERIA |
| Comment | | | | | |
| BDAM | | | | | |
| End of Comment | | | | | |
| | | 1... | | JFCWVCBD | "X'80" - W - WRITE VALIDITY CHECK |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|-------------------------------|------|------------|-----|--------------|--|
| Dec | Hex | | | | |
| | | .1.. | | JFCOVER | "X'40'" - - TRACK OVERFLOW |
| | | ..1. | | JFCEXT | "X'20'" - E - EXTENDED SEARCH |
| | | ...1 | | JFCFEED | "X'10'" - F - FEEDBACK |
| | | 1.. | | JFCACT | "X'08'" - A - ACTUAL ADDRESSING |
| | |1.. | | JFCRSV20 | "X'04',,C'X'" RESERVED |
| | |1. | | JFCRSV22 | "X'02',,C'X'" RESERVED |
| | |1 | | JFCREL | "X'01'" - R - RELATIVE BLOCK ADDRESSING |
| Comment | | | | | |
| USASI/USASCII | | | | | |
| End of Comment | | | | | |
| | | 1.. | | JFCOPTQ | "X'08'" - - EBCDIC TO ASCII OR ASCII TO EBCDIC TRANSLATION REQUIRED |
| Comment | | | | | |
| TCAM | | | | | |
| End of Comment | | | | | |
| | | 1.. | | JFCSDNAM | "X'80'" - W - SOURCE OR DESTINATION NAME PRECEDES MESSAGE (AFTER CONTROL BYTE) |
| | | .1.. | | JFCWUMSG | "X'40'" - U - WORK UNIT IS A MESSAGE (DEFAULT WORK UNIT IS A RECORD) |
| | | ..1. | | JFCBWBWU | "X'20'" - C - CONTROL BYTE PRECEDES WORK UNIT |
| Comment | | | | | |
| VSAM | | | | | |
| X'12' - IL - AMP=('OPTCD=IL') | | | | | |
| X'10' - I - AMP=('OPTCD=I') | | | | | |
| X'02' - L - AMP=('OPTCD=L') | | | | | |
| X'00' - - AMP=('OPTCD=') | | | | | |
| End of Comment | | | | | |
| 102 | (66) | SIGNED | 2 | JFCBLKSI (0) | - MAXIMUM BLOCK SIZE (DCB=BLKSIZE=) |
| 102 | (66) | SIGNED | 2 | JFCBUFSI (0) | - MAXIMUM BUFFER SIZE (DCB=BUFSIZE=) |
| 102 | (66) | SIGNED | 2 | JFCBAXBF | - NUMBER OF INDEX BUFFERS (AMP=('BUFNI=num')) (VSAM) ICB438 |
| 104 | (68) | SIGNED | 2 | JFCLRECL | - LOGICAL RECORD LENGTH (DCB=LRECL=) |
| 106 | (6A) | SIGNED | 1 | JFCNCP (0) | - NUMBER OF CHANNEL PROGRAMS (DCB=NCP=) MAXIMUM NUMBER OF READ OR WRITE REQUESTS WHICH MAY BE ISSUED PRIOR TO A CHECK. NUMBER OF IOB'S GENERATED. (MAXIMUM NUMBER IS 255.) |
| 106 | (6A) | SIGNED | 1 | JFCBUFMX | - MAXIMUM NUMBER OF BUFFERS (DCB=BUFMAX=) THE MAXIMUM NUMBER OF BUFFERS TO BE USED FOR DATA TRANSFER FOR EACH LINE IN THIS LINE GROUP (TCAM) |
| 107 | (6B) | SIGNED | 1 | JFCBFSEQ (0) | - TAPE POSITIONING INFORMATION FOR CHECKPOINT RESTART. THIS FIELD IS USED TO PASS A PHYSICAL FILE SEQUENCE COUNT FROM CHECKPOINT TO RESTART. THE COUNT TELLS THE PHYSICAL POSITION OF THE TAPE VOLUME THAT WAS BEING PROCESSED WHEN THE CHECKPOINT WAS TAKEN. SA60703 |
| 107 | (6B) | SIGNED | 1 | JFCNTM (0) | - NUMBER OF TRACKS (DCB=NTM=) THE NUMBER OF TRACKS THAT DETERMINE THE DEVELOPMENT OF A MASTER INDEX. MAXIMUM NUMBER IS 99. (ISAM) |
| 107 | (6B) | BITSTRING | 1 | JFCPCI | - PROGRAM-CONTROLLED INTERRUPTION (PCI) FLAG BYTE (TCAM) (DCB=PCI=) |
| | | 1... | | JFCPCIX1 | "X'80'" - PCI=(X,) RECEIVE OPERATIONS ICB473 |

JFCB Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|------------|--|
| Dec | Hex | | | | |
| | | .1.. | | JFCPCIX2 | "X'40'" - PCI=(,X) SEND OPERATIONS X INDICATES THAT AFTER THE FIRST BUFFER IS FILLED (ON RECEIVE OPERATIONS) OR EMPTIED (ON SEND OPERATIONS), A PCI OCCURS DURING THE FILLING OR EMPTING OF THE NEXT BUFFER. THE FIRST BUFFER REMAINS ALLOCATED AND ANOTHER IS ALLOCATED. ICB473 |
| | | ..1. | | JFCPCIA1 | "X'20'" - PCI=(A,) RECEIVE OPERATIONS |
| | | ...1 | | JFCPCIA2 | "X'10'" - PCI=(,A) SEND OPERATIONS A INDICATES THAT AFTER THE FIRST BUFFER IS FILLED (ON RECEIVE OPERATIONS) OR EMPTIED (ON SEND OPERATIONS), A PCI OCCURS DURING THE FILLING OR EMPTING OF THE NEXT BUFFER. THE FIRST BUFFER IS DEALLOCATED. A BUFFER IS ALLOCATED IN PLACE OF THE DEALLOCATED BUFFER. |
| | | 1... | | JFCPCIN1 | "X'08'" - PCI=(N,) RECEIVE OPERATIONS |
| | |1.. | | JFCPCIN2 | "X'04'" - PCI=(,N) SEND OPERATIONS N INDICATES THAT NO PCI'S ARE TAKEN DURING FILLING (ON RECEIVE OPERATIONS) OR EMPTING (ON SEND OPERATIONS) OF BUFFERS. BUFFERS ARE DEALLOCATED AT THE END OF TRANSMISSION. |
| | |1. | | JFCPCIR1 | "X'02'" - PCI=(R,) RECEIVE OPERATIONS |
| | |1 | | JFCPCIR2 | "X'01'" - PCI=(,R) SEND OPERATIONS R INDICATES THAT AFTER THE FIRST BUFFER IS FILLED (ON RECEIVE OPERATIONS) OR EMPTIED (ON SEND OPERATIONS), A PCI OCCURS DURING THE FILLING OR EMPTING OF EACH SUCCEEDING BUFFER. THE COMPLETED BUFFER IS DEALLOCATED, BUT NO NEW BUFFER IS ALLOCATED TO TAKE ITS PLACE. |

Comment

NORMAL 108 SEGMENT

End of Comment

| | | | | | |
|-----|------|-----------|---|--------------|--|
| 108 | (6C) | BITSTRING | 4 | JFCRESRV (0) | - FIRST BYTE CONTAINS NUMBER OF BYTES FOR TIME OF DAY. SECOND BYTE CONTAINS NUMBER OF BYTES FOR DATE. THIRD BYTE CONTAINS NUMBER OF BYTES FOR OUT SEQ. FOURTH BYTE CONTAINS NUMBER OF BYTES IN. (TCAM) |
| 108 | (6C) | CHARACTER | 4 | JFCRBIDC (0) | - THE PHYSICAL LOCATION OF WHAT WILL BE THE FIRST STANDARD-LABEL HEADER RECORDS OF THE NEXT DATASET ON THE TAPE VOLUME |
| 108 | (6C) | SIGNED | 2 | JFCRKP | - THE RELATIVE POSITION OF THE FIRST BYTE OF THE KEY WITHIN EACH LOGICAL RECORD (DCB=RKP=) NOTE: The maximum value = (Logical Record Length - Key Length) |
| 110 | (6E) | BITSTRING | 1 | JFCCYLOF | - CYLINDER OVERFLOW (DCB=CYOFL=) THE NUMBER OF TRACKS TO BE RESERVED ON EACH CYLINDER TO HOLD RECORDS THAT OVERFLOW FROM OTHER TRACKS ON THAT CYLINDER. NOTE: The maximum value is 99. |
| 111 | (6F) | CHARACTER | 1 | JFCDBUFN | - RESERVED |
| 112 | (70) | BITSTRING | 1 | JFCINTVL | - INTERVAL (DCB=INTVL=) INTENTIONAL DELAY, IN SECONDS, BETWEEN PASSES THROUGH A POLLING LIST |

Comment

END OF NORMAL 108 SEGMENT
108 PRINTER SEGMENT

NOTE THIS SEGMENT REPLACES THE NORMAL 108 SEGMENT IF THE DD STATEMENT USES THE UCS PARAMETER.

End of Comment

| | | | | | |
|-----|------|-----------|---|----------|--|
| 108 | (6C) | CHARACTER | 4 | JFCUCSID | - NAME OF THE UCS IMAGE TO BE LOADED (UCS=parm1) |
| 112 | (70) | BITSTRING | 1 | JFCUCSOP | - OPERATION OF THE UCS IMAGE TO BE LOADED |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|----------------------------|------|------------|-----|--------------|---|
| Dec | Hex | | | | |
| | | 1... | | JFCBEXTP | "X'80'" - JFCB EXTENSION PRESENT FOR 3800 DEVICE The SVA in JFCBEXAD points to a JFCBE (MDC302) |
| | | .1.. | | JFCFOLD | "X'40'" - UCS IMAGE IS TO BE LOADED IN THE FOLD MODE (UCS=x,FOLD) |
| | | ..1. | | JFCRSV25 | "X'20',,C'X'" RESERVED |
| | | ...1 | | JFCVER | "X'10'" - UCS IMAGE IS TO BE VERIFIED (UCS=x,x,VERIFY) |
| | | 1... | | JFCFCBAL | "X'08'" - FORMS ARE TO BE ALIGNED (FCB=x,ALIGN) |
| | |1.. | | JFCFCBVR | "X'04'" - FORMS CONTROL BUFFER (FCB) IMAGE IS TO BE VERIFIED (FCB=x,x,VERIFY) |
| | |1. | | JFCRSV26 | "X'02',,C'X'" RESERVED |
| | |1 | | JFCRSV27 | "X'01',,C'X'" RESERVED |
| Comment | | | | | |
| END OF 108 PRINTER SEGMENT | | | | | |
| End of Comment | | | | | |
| 113 | (71) | SIGNED | 3 | JFCOUTLI (0) | - SMF - SYSOUT LIMIT (OUTLIM=) Contains the maximum number of logical records specified for this output data set. MDC017 |
| 113 | (71) | SIGNED | 1 | JFCTHRSH (0) | - THRESHOLD (DCB=THRSH=) Percentage of nonreusable disk message queue records that are to be used before a flush closedown occurs. |
| 113 | (71) | BITSTRING | 1 | JFCCPRI | - TRANSMISSION PRIORITY (DCB=CPRI=) (TCAM) PRIORITY BETWEEN SEND AND RECEIVE OPERATIONS |
| | | 1... | | JFCRSV53 | "X'80',,C'X'" RESERVED MDC020 |
| | | .1.. | | JFCRSV54 | "X'40',,C'X'" RESERVED MDC019 |
| | | ..1. | | JFCRSV55 | "X'20',,C'X'" RESERVED MDC018 |
| | | ...1 | | JFCRSV33 | "X'10',,C'X'" RESERVED |
| | | 1... | | JFCRSV34 | "X'08',,C'X'" RESERVED |
| | |1. | | JFCRECV | "X'04'" - R - RECEIVE PRIORITY MDC018 |
| | |1. | | JFCEQUAL | "X'02'" - E - EQUAL PRIORITY MDC019 |
| | |1 | | JFCSEND | "X'01'" - S - SEND PRIORITY MDC020 |
| 114 | (72) | SIGNED | 2 | JFCSOWA | - ** RESERVED-O ** (DCB=SOWA=) |
| 116 | (74) | BITSTRING | 1 | JFCBNTCS | - NUMBER OF OVERFLOW TRACKS |
| 117 | (75) | BITSTRING | 1 | JFCBNVOL | - NUMBER OF VOLUME SERIAL NUMBERS |
| 118 | (76) | CHARACTER | 30 | JFCBVOLS (0) | - THE FIRST FIVE VOLUME SERIAL NUMBERS |
| 118 | (76) | CHARACTER | 22 | | - FIRST 22 BYTES OF JFCBVOLS |
| 140 | (8C) | CHARACTER | 8 | JFCMSVGP | - ** RESERVED-O ** (MDC306) |
| 148 | (94) | BITSTRING | 1 | JFCBEXTL | - LENGTH OF BLOCK OF EXTRA VOLUME SERIAL NUMBERS (BEYOND FIVE) |
| 149 | (95) | CHARACTER | 3 | JFCBEXAD | - SYSTEM VIRTUAL ADDRESS (SVA) OF FIRST JFCB EXTENSION BLOCK JFCBX (IEFJFCBX) - contains additional vols JFCBE (IEFJFCBE) - contains 3800 printer info (MDC303) |
| 152 | (98) | CHARACTER | 3 | JFCBPQTY (0) | - SPACE= Primary quantity (SPACE=(,(prim-qty))) PRIMARY QUANTITY OF DIRECT ACCESS STORAGE REQUIRED |
| 152 | (98) | CHARACTER | 3 | JFCRUNIT | - UNIT TYPE (EBCDIC) OF A DEVICE AT A REMOTE TERMINAL. THE FIRST TWO CHARACTERS ARE RD (READER), PR (PRINTER) OR PU (PUNCH). THE THIRD CHARACTER IS A NUMBER FROM 1 TO 9 ICB387 |
| 155 | (9B) | BITSTRING | 1 | JFCBCTRI | - SPACE PARAMETERS (SPACE=) |
| | | 11.. | | JFCBSPAC | "X'C0'" - BIT PATTERN FOR SPACE REQUESTS |
| | | 11.. | | JFCBCYL | "X'C0'" - CYL REQUEST (SPACE=(CYL,(...))) |
| | | 1... | | JFCBTRK | "X'80'" - TRK REQUEST (SPACE=(TRK,(...))) |
| | | .1.. | | JFCBAVR | "X'40'" - AVRAVE BLOCK LENGTH (blklgth) REQUEST (SPACE=(blklgth,(x,x))) |
| | | ..1. | | JFCBMSGP | "X'20'" - ** RESERVED-O ** (MSVGP) (MDC307) |
| | | ...1 | | JFCRSV29 | "X'10',,C'X'" RESERVED |
| | | 1... | | JFCONTIG | "X'08'" - CONTIG REQUEST (SPACE=(x,(x,x),,CONTIG)) |
| | |1. | | JFCMIXG | "X'04'" - MIXG REQUEST (SPACE=(x,(x,x),,MXIG)) |
| | |1. | | JFCALX | "X'02'" - ALX REQUEST (SPACE=(x,(x,x),,ALX)) |
| | |1 | | JFCROUND | "X'01'" - ROUND REQUEST (SPACE=(x,(x,x),,ROUND)) |
|  |  | .... .... |  | JFCBABS | "X'00'" - ABSTR REQUEST (SPACE=(ABSTR,(...))) |

JFCB Map

| Offsets | | | | | |
|---------|------|------------|-----|--------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 156 | (9C) | CHARACTER | 3 | JFCBSQTY (0) | - SPACE= Secondary quantity (SPACE=(,sec-qty))) SECONDARY QUANTITY OF DIRECT ACCESS STORAGE REQUIRED |
| 156 | (9C) | SIGNED | 2 | JFCRQID | - QUEUE IDENTIFICATION (QID) USED BY ACCESS METHOD TO DETERMINE THE REMOTE TERMINAL LOCATION FOR THIS JOB. ICB387 |
| 158 | (9E) | BITSTRING | 1 | | - LAST BYTE OF JFCBSQTY (MDC304) |
| 159 | (9F) | BITSTRING | 1 | JFCFLGS1 | - FLAG BYTE (ICB488) SA53458 |
| | | 1... .. | | JFCBDLET | "X'80" - ** RESERVED-O ** (OS/VS1) (MDC305) |
| | | 1... .. | | JFCBLSR | "X'80" - Batch/LSR dataset |
| | | .1... .. | | JFCTOPEN | "X'40" - TAPE DATA SET HAS BEEN OPENED MDC026 |
| | | .1. | | JFCBADSP | "X'20" - AUTOMATIC DATA SET PROTECTION INDICATOR (MDC310) |
| | | ...1 | | JFCBPROT | "X'10" - RACF PROTECT REQUESTED (OS/VS2) (MDC314) |
| | | 1... | | JFCBCEOV | "X'08" - CHKPT=EOV SPECIFIED FOR THIS DATA SET (MDC312) |
| | |1.. | | JFCVRDS | "X'04" - VIO DATA SET MDC006 |
| | |1. | | JFCBCKDS | "X'02" - DATA SET IS CHECKPOINT DATASET |
| | |1 | | JFCBUAFF | "X'01" - UNIT AFFINITY SPECIFIED FOR THIS DATA SET (ICB488) SA53458 |
| 160 | (A0) | CHARACTER | 3 | JFCBDQTY | - SPACE= Directory quantity (SPACE=(,dir-qty))) QUANTITY OF DIRECT ACCESS STORAGE REQUIRED FOR A DIRECTORY OR AN EMBEDDED INDEX AREA |
| 163 | (A3) | ADDRESS | 3 | JFCBSPNM (0) | - ** RESERVED-O ** (OS/VS1) (MDC315) |
| 163 | (A3) | BITSTRING | 1 | JFCBFLG3 | - FLAG BYTE (OS/VS2) (MDC316) |
| | | 1... .. | | JFCDQDSP | "X'80" - REQUEST DEQUEUE OF TAPE VOLUME WHEN DEMOUNTED (MDC317) |
| | | .1... .. | | JFCBEXP | "X'40" - EXPIRATION DATE SPECIFIED (MDC318) |
| | | .1. | | JFCBBFTK | "X'20" - LRECL=NNNNNK WAS SPECIFIED |
| | | ...1 | | JFCPOSID | "X'10" - JFCRBIDO CONTAINS THE PHYSICAL LOCATION ON THE TAPE OF THE FIRST STANDARD-LABEL HEADER RECORD TO BE PROCESSED BY OPEN |
| | | 1... | | JFCTEMPS | "X'08" - This flag identifies a Temporary, SMS Managed DASD dataset. It is set by MVS Allocation's IEFAB490 module and used by DFP Open processing. |
| | |1.. | | JFCBDDTK | "X'04" - Set on by IEFAB434 and IEFAB492 (Alloc) only across a DADSM ALLOCATE call to indicate register 6 contains a pointer to the DD token |
| | |1. | | JFCBRV06 | "X'02',C'X'" - RESERVED |
| | |1 | | JFCBRV07 | "X'01',C'X'" - RESERVED |
| 164 | (A4) | SIGNED | 2 | JFCBRV08 | - RESERVED (OS/VS2) |
| 166 | (A6) | SIGNED | 2 | JFCBABST | - SPACE= Absolute track (ABSTR) request address (SPACE=(ABSTR,(prim-qty,address,)) RELATIVE ADDRESS OF FIRST TRACK TO BE ALLOCATED |
| 168 | (A8) | ADDRESS | 3 | JFCBSBNM | - ** RESERVED-O ** (SUBALLOC=) |
| 171 | (AB) | CHARACTER | 3 | JFCBDR LH | - SPACE= AVERAGE DATA BLOCK LENGTH (blklgth) (SPACE=(blklgth,(,))) |
| 174 | (AE) | BITSTRING | 1 | JFCBVLCT | - VOLUME COUNT (volct) (VOL=(,volct)) |
| 175 | (AF) | BITSTRING | 1 | JFCVLDQ | - Volser dequeue indicators (bit placement corresponds to volser placement within JFCAVOLS, i.e., 1-5) |
| | | 1... .. | | JFCVLDQ1 | "X'80" First volser in JFCAVOLS has been dequeued |
| | | .1... .. | | JFCVLDQ2 | "X'40" Second volser in JFCAVOLS has been dequeued |
| | | .1. | | JFCVLDQ3 | "X'20" Third volser in JFCAVOLS has been dequeued |
| | | ...1 | | JFCVLDQ4 | "X'10" Fourth volser in JFCAVOLS has been dequeued |
| | | 1... | | JFCVLDQ5 | "X'08" Fifth volser in JFCAVOLS has been dequeued |
| 175 | (AF) | X'B0' | 0 | JFCBLGTH | "176" - LENGTH OF JFCB (x'B0') |
| 175 | (AF) | X'B0' | 0 | JFCBEND | *** |

JFCB Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|-----------|------------|-----------|----------|------------|-----------|
| INFMJFCB | 0 | 0 | JFCBLKSI | 66 | |
| JFCABN | 5C | 20 | JFCBLOCT | 56 | 10 |
| JFCACC | 5C | 80 | JFCBLP | 42 | 10 |
| JFCACT | 65 | 8 | JFCBLSR | 9F | 80 |
| JFCADDED | 56 | C | JFCBLSRD | 2C | |
| JFCALLOW | 65 | 40 | JFCBLTM | 42 | 20 |
| JFCALX | 9B | 2 | JFCBLTYP | 42 | |
| JFCAMCRO | 38 | | JFCBMASK | 48 | |
| JFCAMPTR | 58 | | JFCBMED1 | 40 | 1 |
| JFCAMSTR | 3A | | JFCBMED2 | 40 | 2 |
| JFCAMSV | 58 | | JFCBMED3 | 40 | 3 |
| JFCASA | 64 | 4 | JFCBMED4 | 40 | 4 |
| JFCASCI | 5D | 4 | JFCBMED5 | 40 | 5 |
| JFCBABFS | 5F | | JFCBMED6 | 40 | 6 |
| JFCBABS | 9B | 0 | JFCBMED7 | 40 | 7 |
| JFCBABST | A6 | | JFCBMED8 | 40 | 8 |
| JFCBADBF | 3C | | JFCBMSGP | 9B | 20 |
| JFCBADSP | 9F | 20 | JFCBNEWV | 56 | 4 |
| JFCBAL | 42 | 40 | JFCBNTCS | 74 | |
| JFCBAVR | 9B | 40 | JFCBNVOL | 75 | |
| JFCBAXBF | 66 | | JFCBOPS1 | 48 | |
| JFCBBFTA | 59 | 60 | JFCBOPS2 | 4F | |
| JFCBBFTK | A3 | 20 | JFCBOTTR | 43 | |
| JFCBBFTR | 59 | 20 | JFCBPMEM | 56 | 1 |
| JFCBBUFF | 4E | 2 | JFCBPQTY | 98 | |
| JFCBCD | 5D | 40 | JFCBPROT | 9F | 10 |
| JFCBCEOV | 9F | 8 | JFCBPWBP | 4D | 1 |
| JFCBCKDS | 9F | 2 | JFCBQNAM | 0 | |
| JFCBCKPT | 65 | 10 | JFCBRLSE | 56 | 40 |
| JFCBCMPY | 41 | 20 | JFCBRV06 | A3 | 2 |
| JFCBCRDT | 50 | | JFCBRV07 | A3 | 1 |
| JFCBCTRI | 9B | | JFCBRV08 | A4 | |
| JFCBCYL | 9B | C0 | JFCBRWPW | 57 | 30 |
| JFCBDDTK | A3 | 4 | JFCBSBNM | A8 | |
| JFCBDLET | 9F | 80 | JFCBSCTY | 57 | 10 |
| JFCBDQTY | A0 | | JFCBSPAC | 9B | C0 |
| JFCBDR LH | AB | | JFCBSPNM | A3 | |
| JFCBDSCB | 35 | | JFCBSQTY | 9C | |
| JFCBDSNM | 0 | | JFCBSTAT | 57 | 40 |
| JFCBELNM | 2C | | JFCBTDSI | 40 | |
| JFCBEND | AF | B0 | JFCBTRK | 9B | 80 |
| JFCBEXAD | 95 | | JFCBTSDM | 34 | |
| JFCBEXP | A3 | 40 | JFCBUAFF | 9F | 1 |
| JFCBEXTL | 94 | | JFCBUFIN | 58 | |
| JFCBEXTP | 70 | 80 | JFCBUFL | 5A | |
| JFCBFALN | 59 | | JFCBUFMX | 6A | |
| JFCBFLG1 | 4D | | JFCBUFNO | 58 | |
| JFCBFLG2 | 4E | | JFCBUFOF | 43 | |
| JFCBFLG3 | A3 | | JFCBUFRQ | 58 | |
| JFCBFLSQ | 44 | | JFCBUFSI | 66 | |
| JFCBFOFL | 43 | 80 | JFCBUR | 5D | 10 |
| JFCBFOUT | 58 | | JFCBVLCT | AE | |
| JFCBFRID | 38 | | JFCBVLSQ | 46 | |
| JFCBFSEQ | 6B | | JFCBVOLS | 76 | |
| JFCBFTEK | 59 | | JFCBXPDT | 53 | |
| JFCBGDGA | 57 | 4 | JFCCAT | 34 | 80 |
| JFCBGNCP | 59 | | JFCCBWU | 65 | 20 |
| JFCBHIAR | 59 | | JFCCCHAR | 64 | 6 |
| JFCBIDRC | 41 | 20 | JFCCMPNS | 41 | 0 |
| JFCBIN | 5D | 80 | JFCCODE | 5D | |
| JFCBIND1 | 56 | | JFCCOMP | 5D | 8 |
| JFCBIND2 | 57 | | JFCCONV | 5D | 13 |
| JFCBLGTH | AF | B0 | JFCCPRI | 71 | |

JFCB Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|-----------|------------|-----------|----------|------------|-----------|
| JFCCYL | 65 | 8 | JFCNDSCB | 34 | 4 |
| JFCCYLOF | 6E | | JFCNEW | 57 | C0 |
| JFCDBUFN | 6F | | JFCNL | 42 | 1 |
| JFCDEFER | 4E | 20 | JFCNLREC | 3E | |
| JFCDEL | 65 | 2 | JFCNOCC | 64 | 0 |
| JFCDEN | 5E | | JFCNOCMP | 41 | 10 |
| JFCDISP | 57 | C0 | JFCNOCON | 5D | 80 |
| JFCDQDSP | A3 | 80 | JFCNOMED | 40 | 0 |
| JFCDSEQN | 42 | 80 | JFCNOREC | 40 | 0 |
| JFCDSORG | 62 | | JFCNOSPC | 41 | 0 |
| JFCDSRG1 | 62 | | JFCNRPS | 4E | 20 |
| JFCDSRG2 | 63 | | JFCNSL | 42 | 4 |
| JFCDUAL | 4D | 10 | JFCNTM | 6B | |
| JFCDWORD | 59 | 2 | JFCNWRIT | 34 | 8 |
| JFCDYN | 59 | 8 | JFCOLD | 57 | 40 |
| JFCEBCD | 5D | 40 | JFCOMPTY | 41 | F0 |
| JFCENT | 57 | 4 | JFCONE | 5D | 1 |
| JFCEQUAL | 71 | 2 | JFCONTIG | 9B | 8 |
| JFCEROPT | 5C | | JFCOPEN | 4D | F |
| JFCEVEN | 5D | 23 | JFCOPTCD | 65 | |
| JFCEXC | 59 | 10 | JFCOPTJ | 65 | 1 |
| JFCEXT | 65 | 20 | JFCOPTQ | 65 | 8 |
| JFCFCBAL | 70 | 8 | JFCORGAM | 63 | 8 |
| JFCFCBID | 38 | | JFCORGCQ | 62 | 8 |
| JFCFCBVR | 70 | 4 | JFCORGCX | 62 | 10 |
| JFCFEED | 65 | 10 | JFCORGDA | 62 | 20 |
| JFCFIX | 64 | 80 | JFCORGGG | 63 | 80 |
| JFCFLGS1 | 9F | | JFCORGIS | 62 | 80 |
| JFCFMREC | 64 | C0 | JFCORGMQ | 62 | 4 |
| JFCFNCBD | 44 | 8 | JFCORGPO | 62 | 2 |
| JFCFNCCI | 44 | 80 | JFCORGPS | 62 | 40 |
| JFCFNCCBP | 44 | 20 | JFCORGTQ | 63 | 20 |
| JFCFNCCBR | 44 | 40 | JFCORGTR | 63 | 4 |
| JFCFNCCBT | 44 | 2 | JFCORGTX | 63 | 40 |
| JFCFNCCBW | 44 | 10 | JFCORGU | 62 | 1 |
| JFCFNCCBX | 44 | 4 | JFCOUTLI | 71 | |
| JFCFOLD | 70 | 40 | JFCOUTOP | 4E | 40 |
| JFCFRI | 5D | 20 | JFCOVER | 65 | 40 |
| JFCFUNC | 44 | | JFCPAT | 34 | 1 |
| JFCFWORD | 59 | 1 | JFCPCI | 6B | |
| JFCGDG | 56 | 2 | JFCPCIA1 | 6B | 20 |
| JFCHIER | 59 | 84 | JFCPCIA2 | 6B | 10 |
| JFCHIER1 | 59 | 4 | JFCPCIBT | 65 | 20 |
| JFCIND | 65 | 10 | JFCPCIN1 | 6B | 8 |
| JFCINOP | 4E | 80 | JFCPCIN2 | 6B | 4 |
| JFCINTVL | 70 | | JFCPCIR1 | 6B | 2 |
| JFCIPLTX | 2C | | JFCPCIR2 | 6B | 1 |
| JFCKEYLE | 5D | | JFCPCIX1 | 6B | 80 |
| JFCLIMCT | 5F | | JFCPCIX2 | 6B | 40 |
| JFCLOC | 56 | 30 | JFCPDS | 56 | 1 |
| JFCLRECL | 68 | | JFCPOSID | A3 | 10 |
| JFCMAC | 64 | 2 | JFCPRTSP | 5D | |
| JFCMAST | 65 | 20 | JFCRBIDC | 6C | |
| JFCMEDIA | 40 | F | JFCRBIDO | 38 | |
| JFCMIXG | 9B | 4 | JFCRCFM | 64 | E0 |
| JFCMOD | 57 | 80 | JFCRCTLG | 4E | 1 |
| JFCMODE | 5D | | JFCRDCOM | 41 | 1 |
| JFCMODEO | 5D | 20 | JFCRECFM | 64 | |
| JFCMODER | 5D | 10 | JFCRECV | 71 | 4 |
| JFCMODNW | 4E | 10 | JFCREDUC | 65 | 4 |
| JFCMSVGP | 8C | | JFCREL | 65 | 1 |
| JFCNCOMP | 5D | 4 | JFCREORG | 65 | 1 |
| JFCNCP | 6A | | JFCREQ | 57 | 2 |
| JFCNCR | 5D | 8 | JFCRESRV | 6C | |
| JFCNDCB | 34 | 2 | JFCRFB | 64 | 10 |

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|-----------|------------|-----------|-----------|------------|-----------|
| JFCRFO | 64 | 20 | JFCTRKNO | 40 | F0 |
| JFCRFS | 64 | 8 | JFCTRRTCH | 5D | |
| JFCRKP | 6C | | JFCTTR | 34 | 10 |
| JFCRLSE | 56 | C0 | JFCTTY | 5D | 2 |
| JFCROUND | 9B | 1 | JFCTWO | 5D | 2 |
| JFCRQID | 9C | | JFCUCSID | 6C | |
| JFCRSV02 | 5C | 8 | JFCUCSOP | 70 | |
| JFCRSV03 | 5C | 4 | JFCUND | 64 | C0 |
| JFCRSV04 | 5C | 2 | JFCVAR | 64 | 40 |
| JFCRSV05 | 5C | 1 | JFCVARD | 64 | 20 |
| JFCRSV06 | 5D | 8 | JFCVER | 70 | 10 |
| JFCRSV07 | 5D | 4 | JFCVLDQ | AF | |
| JFCRSV13 | 63 | 10 | JFCVLDQ1 | AF | 80 |
| JFCRSV15 | 63 | 2 | JFCVLDQ2 | AF | 40 |
| JFCRSV16 | 63 | 1 | JFCVLDQ3 | AF | 20 |
| JFCRSV17 | 65 | 40 | JFCVLDQ4 | AF | 10 |
| JFCRSV18 | 65 | 8 | JFCVLDQ5 | AF | 8 |
| JFCRSV19 | 65 | 4 | JFCVRDS | 9F | 4 |
| JFCRSV20 | 65 | 4 | JFCVSL | 34 | 40 |
| JFCRSV21 | 65 | 2 | JFCWUMSG | 65 | 40 |
| JFCRSV22 | 65 | 2 | JFCWVCBD | 65 | 80 |
| JFCRSV25 | 70 | 20 | JFCWVCIS | 65 | 80 |
| JFCRSV26 | 70 | 2 | JFCWVCSP | 65 | 80 |
| JFCRSV27 | 70 | 1 | JFC1TRAK | 5D | 42 |
| JFCRSV29 | 9B | 10 | JFC128TK | 40 | 30 |
| JFCRSV31 | 44 | 1 | JFC1600 | 5E | C3 |
| JFCRSV32 | 5D | 1 | JFC18TRK | 40 | 10 |
| JFCRSV33 | 71 | 10 | JFC2TRAK | 5D | 82 |
| JFCRSV34 | 71 | 8 | JFC200 | 5E | 3 |
| JFCRSV53 | 71 | 80 | JFC256TK | 40 | 40 |
| JFCRSV54 | 71 | 40 | JFC36TRK | 40 | 20 |
| JFCRSV55 | 71 | 20 | JFC4TRAK | 5D | C2 |
| JFCRUNIT | 98 | | JFC556 | 5E | 43 |
| JFCSDNAM | 65 | 80 | JFC6250 | 5E | D3 |
| JFCSDRPS | 4E | 8 | JFC800 | 5E | 83 |
| JFCSDS | 34 | 20 | | | |
| JFCSECUR | 57 | 10 | | | |
| JFCSEND | 71 | 1 | | | |
| JFCSHARE | 57 | 8 | | | |
| JFCSIM | 59 | 40 | | | |
| JFCSKP | 5C | 40 | | | |
| JFCSL | 42 | 2 | | | |
| JFCSLCRE | 4D | 40 | | | |
| JFCSLDES | 4D | 20 | | | |
| JFCSOWA | 72 | | | | |
| JFCSPECL | 41 | F | | | |
| JFCSPNO | 5D | 1 | | | |
| JFCSPONE | 5D | 9 | | | |
| JFCSPTHR | 5D | 19 | | | |
| JFCSP TWO | 5D | 11 | | | |
| JFCSRCHD | 65 | 4 | | | |
| JFCSTACK | 5D | | | | |
| JFCSTAND | 4D | 80 | | | |
| JFCSUL | 42 | A | | | |
| JFCTDSI1 | 40 | | | | |
| JFCTDSI2 | 41 | | | | |
| JFCTEMP | 57 | 1 | | | |
| JFCTEMPS | A3 | 8 | | | |
| JFCTHRSH | 71 | | | | |
| JFCTOPEN | 9F | 40 | | | |
| JFCTOPT | 5C | 10 | | | |
| JFCTRACE | 4E | 4 | | | |
| JFCTRAN | 5D | 3B | | | |
| JFCTREV | 5D | 2B | | | |
| JFCTRKBL | 60 | | | | |

JFCBE Programming Interface information

Programming Interface information

JFCBE

ONLY the following fields are part of the programming interface information:

- | | | | |
|------------|------------|-----------|------------|
| • JFCBBST | • JFCBTRS2 | • JFCGRP2 | • JFCGRP7 |
| • JFCBCFS | • JFCBTRS3 | • JFCGRP3 | • JFCGRP8 |
| • JFCBELEN | • JFCBTRS4 | • JFCGRP4 | • JFCIDTRC |
| • JFCBEOPN | • JFCDSID | • JFCGRP5 | • JFCIMTOT |
| • JFCBMAGT | • JFCGRP1 | • JFCGRP6 | • JFCMODIF |
| • JFCBTRS1 | | | |

End of Programming Interface information

JFCBE Heading Information

Common Name: JOB FILE CONTROL BLOCK EXTENSION FOR 3800 PRINTER KEYWORDS
Macro ID: IEFJFCBE
DSECT Name: JFCBE
Owning Component: Interpreter (SC1B9)
Eye-Catcher ID: None
Storage Attributes: Subpool: 236 or 237 (SWA), or 241 (MSTR)
 Key: 1
 Residency: Above or Below
Size: 176
 Frequency: One per DD when 3800 device information specified on the allocation request.
Created by: Interpreter and Dynamic Allocation
Pointed to by: - Register 0 on entry to the DFSMS OPEN JFCBE user exit
Serialization: None for Interpreter, SVC 99 processing for Dynamic Allocation and Unallocation
Function: This macro maps the Job File Control Block Extension for the 3800 device.

JFCBE Map

| Offsets | | | | | |
|---------|------|------------|-----|--------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | JFCBE | , - |
| 0 | (0) | CHARACTER | 3 | JFCBEXTR | - SVA FOR NEXT EXTENSION BLOCK |
| 3 | (3) | BITSTRING | 1 | JFCBETYP | - TABLE ID OF JFCBE |
| 3 | (3) | X'29' | 0 | JFCBEID | "41" - JFCBE IDENTIFIER |
| 4 | (4) | BITSTRING | 1 | JFCBFLAG | - FLAG BYTE |
| | | 1... | | JFCBEOPN | "X'80" - USER OPEN EXIT MODIFIED THIS BLOCK - The flag is set in the exit routine (MDC304) |
| | | .1.. | | JFCBE003 | "X'40',C'X'" - RESERVED |
| | | ..1. | | JFCBE004 | "X'20',C'X'" - RESERVED |
| | | ...1 | | JFCBE005 | "X'10',C'X'" - RESERVED |
| | | 1... | | JFCBE006 | "X'08',C'X'" - RESERVED |
| | |1.. | | JFCBCFS | "X'04" - CONTINUOUS FORM STACKING (BURST=NO) |
| | |1. | | JFCBBST | "X'02" - BURST FORM STACKING (BURST=YES) |
| | |1 | | JFCBE007 | "X'01',C'X'" - RESERVED |
| 5 | (5) | SIGNED | 1 | JFCIDTRC | - TABLE REFERENCE CHARACTER FOR COPY MODIFICATION PATTERN (MODIFY=(,trc)) |
| 6 | (6) | BITSTRING | 1 | JFCBE008 | - RESERVED |
| 7 | (7) | SIGNED | 1 | JFCIMTOT | - NUMBER OF IMAGE COPIES (FLASH=(,count)) |
| 8 | (8) | CHARACTER | 4 | JFCBMAGT | - FORMS IMAGE CARTRIDGE ID (FLASH=(overlay-name)) |
| 12 | (C) | CHARACTER | 4 | JFCMODIF | - COPY MODIFICATION ID (MODIFY=module-name) |
| 16 | (10) | CHARACTER | 4 | JFCBE009 | - RESERVED (MDC301) |
| 20 | (14) | CHARACTER | 4 | JFCBTRS1 | - NAME OF TRANSLATE TABLE 1 (CHARS=tbl-name1) |
| 24 | (18) | CHARACTER | 4 | JFCBTRS2 | - NAME OF TRANSLATE TABLE 2 (CHARS=(t1,tbl-name2)) |
| 28 | (1C) | CHARACTER | 4 | JFCBTRS3 | - NAME OF TRANSLATE TABLE 3 (CHARS=(t1,t2,tbl-name3)) |
| 32 | (20) | CHARACTER | 4 | JFCBTRS4 | - NAME OF TRANSLATE TABLE 4 (CHARS=(t1,t2,t3,tbl-name4)) |
| 36 | (24) | CHARACTER | 8 | JFCGROUP (0) | - OUTPUT DISTRIBUTION IN GROUPS |
| 36 | (24) | SIGNED | 1 | JFCGRP1 | - FOR FIRST GROUP, NUMBER OF TIMES EACH PAGE IS PRINTED BEFORE GOING TO NEXT PAGE (COPIES=(n,(gp1))) |
| 37 | (25) | SIGNED | 1 | JFCGRP2 | - FOR SECOND GROUP, NUMBER OF TIMES EACH PAGE IS PRINTED BEFORE GOING TO NEXT PAGE (COPIES=(n,(gp2))) |
| 38 | (26) | SIGNED | 1 | JFCGRP3 | - FOR THIRD GROUP, NUMBER OF TIMES EACH PAGE IS PRINTED BEFORE GOING TO NEXT PAGE (COPIES=(n,(gp3))) |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|--|
| Dec | Hex | | | | |
| 39 | (27) | SIGNED | 1 | JFCGRP4 | - FOR FOURTH GROUP, NUMBER OF TIMES EACH PAGE IS PRINTED BEFORE GOING TO NEXT PAGE (COPIES=(n,(,,,gp4))) |
| 40 | (28) | SIGNED | 1 | JFCGRP5 | - FOR FIFTH GROUP, NUMBER OF TIMES EACH PAGE IS PRINTED BEFORE GOING TO NEXT PAGE (COPIES=(n,(,,,gp5))) |
| 41 | (29) | SIGNED | 1 | JFCGRP6 | - FOR SIXTH GROUP, NUMBER OF TIMES EACH PAGE IS PRINTED BEFORE GOING TO NEXT PAGE (COPIES=(n,(,,,,gp6))) |
| 42 | (2A) | SIGNED | 1 | JFCGRP7 | - FOR SEVENTH GROUP, NUMBER OF TIMES EACH PAGE IS PRINTED BEFORE GOING TO NEXT PAGE (COPIES=(n,(,,,,,gp7))) |
| 43 | (2B) | SIGNED | 1 | JFCGRP8 | - FOR EIGHTH GROUP, NUMBER OF TIMES EACH PAGE IS PRINTED BEFORE GOING TO NEXT PAGE (COPIES=(n,(,,,,,,gp8))) |
| 44 | (2C) | CHARACTER | 8 | JFCDSID | - DSID ID VALUE (DSID=id), placed here for 3540 diskette compatibility |
| 52 | (34) | BITSTRING | 124 | JFCBE010 | - RESERVED |
| 52 | (34) | X'B0' | 0 | JFCBELEN | **"-JFCBE" - LENGTH OF JFCB EXTENSION (MDC302) |
| 52 | (34) | X'34' | 0 | JFCBEULN | "JFCBE010-JFCBE" LENGTH OF USED FIELDS IN JFCB EXTENSION (MDC303) |

JFCBE Cross Reference

| Name | Hex Offset | Hex Value |
|----------|------------|-----------|
| JFCBBST | 4 | 2 |
| JFCBCFS | 4 | 4 |
| JFCBE | 0 | |
| JFCBEID | 3 | 29 |
| JFCBELEN | 34 | B0 |
| JFCBEOPN | 4 | 80 |
| JFCBETYP | 3 | |
| JFCBEULN | 34 | 34 |
| JFCBEXTR | 0 | |
| JFCBE003 | 4 | 40 |
| JFCBE004 | 4 | 20 |
| JFCBE005 | 4 | 10 |
| JFCBE006 | 4 | 8 |
| JFCBE007 | 4 | 1 |
| JFCBE008 | 6 | |
| JFCBE009 | 10 | |
| JFCBE010 | 34 | |
| JFCBFLAG | 4 | |
| JFCBMAGT | 8 | |
| JFCBTRS1 | 14 | |
| JFCBTRS2 | 18 | |
| JFCBTRS3 | 1C | |
| JFCBTRS4 | 20 | |
| JFCDSID | 2C | |
| JFCGROUP | 24 | |
| JFCGRP1 | 24 | |
| JFCGRP2 | 25 | |
| JFCGRP3 | 26 | |
| JFCGRP4 | 27 | |
| JFCGRP5 | 28 | |
| JFCGRP6 | 29 | |
| JFCGRP7 | 2A | |
| JFCGRP8 | 2B | |
| JFCIDTRC | 5 | |
| JFCIMTOT | 7 | |
| JFCMODIF | C | |

JFCBX Programming Interface information

Programming Interface information

JFCBX

ONLY the following fields are part of the programming interface information:

- | | | | |
|------------|------------|------------|-----------|
| • JFCBXNXT | • JFCXVD10 | • JFCXVD15 | • JFCXVD6 |
| • JFCBXTTR | • JFCXVD11 | • JFCXVD2 | • JFCXVD7 |
| • JFCBXVOL | • JFCXVD12 | • JFCXVD3 | • JFCXVD8 |
| • JFCXVD | • JFCXVD13 | • JFCXVD4 | • JFCXVD9 |
| • JFCXVD1 | • JFCXVD14 | • JFCXVD5 | |

End of Programming Interface information

JFCBX Heading Information

Common Name: JOB FILE CONTROL BLOCK EXTENSION
Macro ID: IEFJFCBX
DSECT Name: JFCBX (defined by invoker)
Owning Component: Interpreter (SC1B9)
Eye-Catcher ID: None
Storage Attributes: Subpool: 236 or 237 (SWA), or 241 (MSTR)
 Key: 1
 Residency: Above or Below
Size: 176
 FREQUENCY = One or more per DD with more than five volume serial numbers specified. Each JFCBX holds up to 15 volume serial numbers.
Created by: Interpreter and Dynamic Allocation
Pointed to by:

- JFCBEXAD field (SVA) of the JFCB data area
- JFCBXNXT field (pointer) of the JFCBX data area
- SWBUFPTTR field in IEFZB506 upon return from IEFQMREQ macro (Preferred method of SVA translation)
- SWBLKPTR field in IEFZB505 upon return from SWAREQ macro

Serialization: None for Interpreter, SVC 99 processing for Dynamic Allocation and Unallocation
Function: This macro maps the Job File Control Block Extension. It is used to record volume serial numbers in excess of the five recorded in the JFCBVOLS field of the JFCB.

JFCBX Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|---------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | | |
| 0 | (0) | CHARACTER | 3 | JFCBXTTR | - SVA FOR NEXT EXTENSION BLOCK |
| 3 | (3) | CHARACTER | 1 | | - RESERVED |
| 4 | (4) | CHARACTER | 6 | JFCBXVOL (15) | - MAXIMUM NO. OF 15-SIX BYTE VOL. SER. NUMBERS |
| 94 | (5E) | CHARACTER | 2 | | - RESERVED |
| 96 | (60) | CHARACTER | 44 | JFCBXNAM | - ALIAS NAME FOR DSNAME IN THE JFCB (MDC002) YM3584 |
| 140 | (8C) | CHARACTER | 4 | JFCBXDEV | - DEVICE TYPE RETRIEVED FROM CATALOG FOR RECATALOG (MDC003) YM3584 |
| 144 | (90) | BITSTRING | 2 | JFCXVD | - Volser dequeue indicators (bit placement corresponds to volser placement within JFCBXVOL, i.e., 1-15) |
| 144 | (90) | BITSTRING | 0 | JFCXVD1 | "X'8000" First volser in JFCBXVOL was dequeued |
| 144 | (90) | BITSTRING | 0 | JFCXVD2 | "X'4000" Second volser in JFCBXVOL was dequeued |
| 144 | (90) | BITSTRING | 0 | JFCXVD3 | "X'2000" Third volser in JFCBXVOL was dequeued |
| 144 | (90) | BITSTRING | 0 | JFCXVD4 | "X'1000" Fourth volser in JFCBXVOL was dequeued |
| 144 | (90) | BITSTRING | 0 | JFCXVD5 | "X'0800" Fifth volser in JFCBXVOL was dequeued |
| 144 | (90) | BITSTRING | 0 | JFCXVD6 | "X'0400" Sixth volser in JFCBXVOL was dequeued |
| 144 | (90) | BITSTRING | 0 | JFCXVD7 | "X'0200" Seventh volser in JFCBXVOL was dequeued |
| 144 | (90) | BITSTRING | 0 | JFCXVD8 | "X'0100" Eighth volser in JFCBXVOL was dequeued |
| | | 1... | | JFCXVD9 | "X'0080" Ninth volser in JFCBXVOL was dequeued |
| | | .1.. | | JFCXVD10 | "X'0040" Tenth volser in JFCBXVOL was dequeued |
| | | .1. | | JFCXVD11 | "X'0020" Eleventh volser in JFCBXVOL was dequeued |
| | | ...1 | | JFCXVD12 | "X'0010" Twelfth volser in JFCBXVOL was dequeued |
| | | 1... | | JFCXVD13 | "X'0008" Thirteenth volser in JFCBXVOL was dequeued |
| | |1.. | | JFCXVD14 | "X'0004" Fourteenth volser in JFCBXVOL was dequeued |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|--|
| Dec | Hex | | | | |
| | |1. | | JFCXVD15 | "X'0002" Fifteenth volser in JFCBXVOL was dequeued |
| 146 | (92) | CHARACTER | 26 | | - RESERVED |
| 172 | (AC) | ADDRESS | 4 | JFCBXNXT | - ADDRESS OF NEXT JFCB EXTENSION MDC001 |

JFCBX Cross Reference

| Name | Hex Offset | Hex Value |
|----------|---------------|--------------|
| JFCBXDEV | 8C | |
| JFCBXNAM | 60 | |
| JFCBXNXT | AC | |
| JFCBXTTR | 0 | |
| JFCBXVOL | 4 | |
| JFCXVD | 90 | |
| JFCXVD1 | 90 | 8000 |
| JFCXVD10 | 90 | 40 |
| JFCXVD11 | 90 | 20 |
| JFCXVD12 | 90 | 10 |
| JFCXVD13 | 90 | 8 |
| JFCXVD14 | 90 | 4 |
| JFCXVD15 | 90 | 2 |
| JFCXVD2 | 90 | 4000 |
| JFCXVD3 | 90 | 2000 |
| JFCXVD4 | 90 | 1000 |
| JFCXVD5 | 90 | 800 |
| JFCXVD6 | 90 | 400 |
| JFCXVD7 | 90 | 200 |
| JFCXVD8 | 90 | 100 |
| JFCXVD9 | 90 | 80 |

JICA Heading Information

Common Name: JES/INTERPRETER COMMUNICATIONS AREA
Macro ID: IEFJICA
DSECT Name: JICA
Owning Component: Interpreter (SC1B9)
Eye-Catcher ID: JICA
 Offset: 0
 Length: 4 bytes
Storage Attributes: Subpool: 253
 Key: 0
 Residency: Below
Size: 256 bytes
 Frequency: 1 per invocation of Interpreter
Created by: The Initiator and JES3
Pointed to by: NELJICA field of the IEFNEL data area
Serialization: None
Function: Mapping for the JES/Interpreter Communications Area (JICA), which is an extension of IEFNEL.

JICA Map

| Offsets | | | | | |
|---------|------|------------|-----|--------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | JICA | |
| 0 | (0) | CHARACTER | 4 | JICAID | IDENTIFIER 'JICA' ACRONYM |
| 4 | (4) | BITSTRING | 1 | JICAVERS | VERSION NUMBER |
| 5 | (5) | CHARACTER | 1 | JICARSV1 | RESERVED |
| 6 | (6) | SIGNED | 2 | JICALGTH | LENGTH OF JICA |
| 8 | (8) | CHARACTER | 8 | JICASPAF (0) | SPOOL ACCESS FACILITY TOKENS |
| 8 | (8) | ADDRESS | 4 | JICASRQT | SCHEDULING REQUIREMENTS TOKEN |
| 12 | (C) | ADDRESS | 4 | JICAJOBT | JOB INFORMATION SPOOL ACCESS FACILITY TOKEN |
| 16 | (10) | CHARACTER | 8 | JICAUSER | USER ID |
| 24 | (18) | CHARACTER | 8 | JICAGRP | GROUP ID |
| 32 | (20) | CHARACTER | 4 | JICASSNM | SUBSYSTEM NAME |
| 36 | (24) | BITSTRING | 1 | JICAXMOD | EXECUTION MODE NOTE: any changes made to this field must also be made to field SSSA7XMD in the IEFSSSA mapping macro |
| | | 1... | | JICABTCH | "X'80" BATCH |
| | | .1.. | | JICATASK | "X'40" TASK |
| | | ..1. | | JICATSO | "X'20" TSO |
| | | ...1 | | JICADYAS | "X'10" BYPASS DYNALLOCS SPACE PROCESSING |
| | | 1... | | JICASCAN | "X'08" TYPRUN=SCAN SPECIFIED |
| 37 | (25) | CHARACTER | 3 | JICARSV2 | RESERVED |
| 40 | (28) | ADDRESS | 4 | JICAPLCO | SCHEDULING SERVICES PLCO OUTPUT SSOB EXTENSION |
| 44 | (2C) | ADDRESS | 4 | JICANVOL | POINTER TO A LIST OF NON-STORAGE SUBSYSTEM MANAGED CATALOG VOLUMES |
| 48 | (30) | BITSTRING | 1 | JICADSBP | SUBPOOL TO RETURN DATA IN |
| 49 | (31) | CHARACTER | 80 | JICAUTKN | UTOKEN TO PASS TO SMS IDAX |
| 129 | (81) | CHARACTER | 127 | JICARSV3 | RESERVED |

Comment

ADDITIONAL DATA

End of Comment

| | | | | | |
|-----|------|--------|---|----------|-------------------------|
| 129 | (81) | X'2' | 0 | JICACVER | "2" VERSION NUMBER |
| 129 | (81) | X'100' | 0 | JICAFIXD | "*-JICA" LENGTH OF JICA |

JICA Cross Reference

JICA Cross Reference

| Name | Hex Offset | Hex Value |
|----------|---------------|--------------|
| JICA | 0 | |
| JICABTCH | 24 | 80 |
| JICACVER | 81 | 2 |
| JICADSBP | 30 | |
| JICADYAS | 24 | 10 |
| JICAFIXD | 81 | 100 |
| JICAGRP | 18 | |
| JICAID | 0 | |
| JICAJOBT | C | |
| JICALGTH | 6 | |
| JICANVOL | 2C | |
| JICAPLCO | 28 | |
| JICARSV1 | 5 | |
| JICARSV2 | 25 | |
| JICARSV3 | 81 | |
| JICASCAN | 24 | 8 |
| JICASPAF | 8 | |
| JICASRQT | 8 | |
| JICASSNM | 20 | |
| JICATASK | 24 | 40 |
| JICATSO | 24 | 20 |
| JICAUSER | 10 | |
| JICAUTKN | 31 | |
| JICAVERS | 4 | |
| JICAXMOD | 24 | |

JMR Programming Interface information

Programming Interface information

JMR

End of Programming Interface information

JMR Heading Information

Common Name: Job Management Record
Macro ID: IEFJMR
DSECT Name: JMR
Owning Component: Interpreter - CI (SC1B9)
Eye-Catcher ID: None
Storage Attributes: Virtual Storage: Obtained via GETMAIN
 Subpool: 255, 236 or 237
 Key: 1
 Residency: Below
Size: 76 bytes (decimal)
 Frequency: 1 per job
Created by: IEFSEMFIE or IEFTB721
Pointed to by: TCTJMR field of the TCT (IEFTCT) data area
Serialization: None
Function: Contains job information accumulated by IBM-supplied data collection routines. It is also an information source for JES and the user exit routines.

JMR Map

| Offsets | | | | | |
|---------|------|------------|-----|------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | JMR | |
| 0 | (0) | CHARACTER | 8 | JMRJOB | JOB NAME |
| 8 | (8) | SIGNED | 4 | JMRENTY | ENTRY TIME IN 1/100'S SEC |
| 12 | (C) | SIGNED | 4 | JMREDATE | ENTRY DATE 0CYDDDDF |
| 16 | (10) | CHARACTER | 4 | JMRCPUID | CPU - SID AND MDL FROM SMCA |
| 20 | (14) | CHARACTER | 8 | JMRUSEID | User-defined identification field (taken from common exit parameter area). |
| 28 | (1C) | CHARACTER | 1 | JMRSTEP | STEP NUMBER |
| 28 | (1C) | X'1D' | 0 | JMRLGEND | *** |
| 28 | (1C) | X'1D' | 0 | JMRLOGSZ | "JMRLGEND-JMRJOB" SIZE OF JOB LOG |
| 29 | (1D) | CHARACTER | 1 | JMRINDC | INDICATOR SWITCHES 20011 |

Comment

BIT MEANINGS SAME AS JMROPT FIELD 20011

End of Comment

| | | | | | |
|----|------|-----------|---|--------------|--|
| 30 | (1E) | CHARACTER | 1 | JMRFLG | JOB STATUS INDICATOR Y02668 |
| | | 1... .. | | JMRSTRS | "X'80" STEP RESTART Y02668 |
| | | .1... .. | | JMRCHRS | "X'40" CHECKPOINT RESTART Y02668 |
| | | ..1. | | JMRCNRS | "X'20" CONTINUE RESTART Y02668 |
| | | ...1 | | JMRABCOD | "X'10" ON=COMP CODE IN JES3 JMR JMRCOND FIELD |
| | | 1... | | JMRWARM | OFF=CONDITION CODE IN JES3 JMRCOND |
| 31 | (1F) | CHARACTER | 1 | JMRCLASS | "X'08" WARMSTART JOB Y02668 |
| 32 | (20) | SIGNED | 4 | JMRUCOM | JOB CLASS |
| 36 | (24) | SIGNED | 4 | JMRUTLP | USER COMMUNICATION - INITIALIZED 0 |
| | | | | | POINTER TO USER TIME LIMIT EXIT ROUTINE PARAMETER AREA |
| 36 | (24) | X'28' | 0 | JMRSIZE | **-JMR" SIZE OF JMR IN CORE |
| 40 | (28) | SIGNED | 4 | JMRDRSTP (2) | RDR STOP TIME AND DATE |
| 48 | (30) | SIGNED | 4 | JMRJOBIN | JOB SYSIN CT |
| 52 | (34) | CHARACTER | 2 | JMRDRDR | RDR DEVICE CLASS AND TYPE |
| 54 | (36) | CHARACTER | 1 | JMROPT | OPTION SWITCHES |
| | | 1... .. | | JMRJOBWSW | "X'80" JOB FUNCTIONS REQUESTED |
| | | .1... .. | | JMRSTPSW | "X'40" STEP FUNCTIONS REQUESTED |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|-----------------------------------|------|------------|-----|------------|---|
| Dec | Hex | | | | |
| | | ..1. | | JMREXITS | "X'20'" USER EXITS REQUESTED |
| | | ...1 | | JMRXONLY | "X'10'" EXITS ONLY SPECIFIED |
| | |1 | | JMRFIND | "X'01'" FOREGROUND INDICATED 20011 |
| 55 | (37) | CHARACTER | 1 | | RESERVED |
| 56 | (38) | SIGNED | 4 | (0) | |
| 56 | (38) | CHARACTER | 5 | JMRSYSOC | SYSOUT CLASSES |
| Comment | | | | | |
| PARM LIST PASSED TO IEFUJV IN C/I | | | | | |
| End of Comment | | | | | |
| 61 | (3D) | CHARACTER | 1 | JMRJCLCD | JCL CODE |
| | | 1... | | JMRCIV | "X'80'" CODE 128 - C/I DEFINED JCL VERB NOT DEFINED BELOW |
| | | .1.. | | JMRJDTVB | "X'40'" CODE 64 - JDT-DEFINED JCL VERB |
| | | ..1. | | JMRINTRP | "X'20'" CODE 32 - JCL HAS BEEN INTERPRETED |
| | | ...1 | | JMRCNVD | "X'10'" CODE 16 - JCL HAS BEEN CONVERTED |
| | | 1... | | JMRPROCV | "X'08'" CODE 8 - PROC VERB |
| | |1.. | | JMRDDV | "X'04'" CODE 4 - DD VERB |
| | |1.. | | JMREXECV | "X'02'" CODE 2 - EXEC VERB |
| | |1 | | JMRJOBV | "X'01'" CODE 1 - JOB VERB |
| Comment | | | | | |
| X'00' CODE 0 - NULL VERB | | | | | |
| End of Comment | | | | | |
| 62 | (3E) | CHARACTER | 1 | (2) | |
| 64 | (40) | SIGNED | 4 | JMRJOBP | PTR TO JOB LOG |
| 68 | (44) | SIGNED | 4 | JMRJCLP | PTR TO JCL CARD |
| 72 | (48) | SIGNED | 4 | JMRJCLCP | PTR TO JCL CODE |
| 72 | (48) | X'40' | 0 | JMRPTRS | "JMRJOBP" |

JMR Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| JMR | 0 | | JMRJOBV | 3D | 1 |
| JMRABCOD | 1E | 10 | JMRLGEND | 1C | 1D |
| JMRCHRS | 1E | 40 | JMRLOGSZ | 1C | 1D |
| JMRCIV | 3D | 80 | JMROPT | 36 | |
| JMRCLASS | 1F | | JMRPROCV | 3D | 8 |
| JMRCNRS | 1E | 20 | JMRPTRS | 48 | 40 |
| JMRCNVD | 3D | 10 | JMRDR | 34 | |
| JMRCPUID | 10 | | JMRSIZE | 24 | 28 |
| JMRDDV | 3D | 4 | JMRSTEP | 1C | |
| JMRDRSTP | 28 | | JMRSTPSW | 36 | 40 |
| JMREDATE | C | | JMRSTRS | 1E | 80 |
| JMRENTY | 8 | | JMRSYSOC | 38 | |
| JMREXECV | 3D | 2 | JMRUCOM | 20 | |
| JMREXITS | 36 | 20 | JMRUSEID | 14 | |
| JMRFIND | 36 | 1 | JMRUTLP | 24 | |
| JMRFLG | 1E | | JMRWARM | 1E | 8 |
| JMRINDC | 1D | | JMRXONLY | 36 | 10 |
| JMRINTRP | 3D | 20 | | | |
| JMRJCLCD | 3D | | | | |
| JMRJCLCP | 48 | | | | |
| JMRJCLP | 44 | | | | |
| JMRJDTVB | 3D | 40 | | | |
| JMRJOB | 0 | | | | |
| JMRJOBIN | 30 | | | | |
| JMRJOBP | 40 | | | | |
| JMRJOBSW | 36 | 80 | | | |

JSAB Programming Interface information

Programming Interface information

JSAB

INCLUDE ONLY

End of Programming Interface information

JSAB Heading Information

Common Name: Job scheduler address space control block
Macro ID: IAZJSAB
DSECT Name: IAZJSAB
Owning Component: JES Common (SC141)
Eye-Catcher ID: JSAB
 Offset: JSABID-JSAB
 Length: L'JSABID
Storage Attributes: Subpool: 245 (address space level) or 253 (subtask level)
 Key: 0
 Residency: Above or below 16M
Size: See JSABSIZE
Created by: JES2, JES3
Pointed to by: ASSBJSAB field of the ASSB data area
 STCBJSAB field of the STCB data area
Serialization: None.
Function: Provides information about the job currently running in an address space.

JSAB Map

| Offsets | | | | | |
|---------|-----|------------|-----|------------|--------------------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | IAZJSAB | |
| 0 | (0) | X'0' | 0 | JSAB | "IAZJSAB" ALTERNATE DSECT NAME |
| 0 | (0) | CHARACTER | 4 | JSABID | JSAB ID |
| 4 | (4) | ADDRESS | 4 | JSABNEXT | JSAB CHAIN FIELD |
| 8 | (8) | SIGNED | 4 | JSABLEN | Length of control block |

Comment

Preceeding fields are "frozen" for SUMMARY DUMP purposes

End of Comment

| | | | | | |
|-----|------|------------|----|--------------|---|
| 12 | (C) | BITSTRING | 1 | JSABVERS | CONTROL BLOCK VERSION |
| 12 | (C) | X'1' | 0 | JSABVRSN | "1" CURRENT CONTROL BLOCK VERSION |
| 13 | (D) | BITSTRING | 1 | JSABFLG1 | JSAB FLAG 1 |
| | | 1... | | JSABNVAL | "B'10000000" This JSAB is not valid (It is LOGICALLY deleted) |
| | | .1... | | JSABSTSK | "B'01000000" Subtask level JSAB |
| 14 | (E) | BITSTRING | 1 | JSABFLG2 | JSAB FLAG 2 |
| 15 | (F) | BITSTRING | 1 | JSABCLR (0) | Start of re-use clear area |
| 15 | (F) | BITSTRING | 1 | JSABCLEV | CREATING COMPONENT'S CODE LEVEL (JSABVRSN LAST TIME JSAB-CREATING CODE WAS UPDATED) |
| 15 | (F) | X'10' | 0 | JSABBLST | *** START OF CHARACTER DATA |
| 16 | (10) | CHARACTER | 4 | JSABSCID | SCHEDULING COMPONENT'S ID (JES2, JES3) |
| 20 | (14) | CHARACTER | 8 | JSABWKID (0) | WORK UNIT ID |
| 20 | (14) | CHARACTER | 8 | JSABJBID | JOB ID |
| 28 | (1C) | CHARACTER | 8 | JSABJBNM | JOB NAME |
| 36 | (24) | CHARACTER | 8 | JSABPREF | PREFIX USED IN MESSAGES JES2 -> EQUAL TO JSABJBID JES3 -> EQUAL TO JSABJBNM |
| 44 | (2C) | CHARACTER | 8 | JSABUSID | USERID |
| 52 | (34) | CHARACTER | 20 | JSABRESC | RESERVED FOR FUTURE USE |
| 52 | (34) | X'48' | 0 | JSABBLND | *** END OF CHARACTER DATA |
| 72 | (48) | DBL WORD | 8 | JSABESTK | PROGRAM ENTRY START TIME (STORE CLOCK TIME - STCK) |
| 80 | (50) | DBL WORD | 8 | JSABXSTK | PROGRAM EXECUTION START TIME (STORE CLOCK TIME - STCK) |
| 88 | (58) | ADDRESS | 4 | JSABUSER | USER AREA POINTER |
| 92 | (5C) | CHARACTER | 8 | JSABGPNM | XCF group name |
| 100 | (64) | BITSTRING | 8 | JSABJSTA | JES Status |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|--------------|--|
| Dec | Hex | | | | |
| 100 | (64) | X'64' | 0 | JSABJFL1 | "JSABJSTA,1,C'B" JES Status flags |
| | | 1... | | JSABJ1SP | "B'10000000" JES supports JES status |
| | | .1.. | | JSABJ1PS | "B'01000000" Waiting for PSO |
| | | ..1. | | JSABJ1CN | "B'00100000" Waiting for CS (Cancel) |
| | | ...1 | | JSABJ1ST | "B'00010000" Waiting for CS (Status) |
| | | 1... | | JSABJ1TR | "B'00001000" Waiting for job term |
| | |1.. | | JSABJ1RQ | "B'00000100" Waiting for job reenqueue |
| | |1. | | JSABJ1IW | "B'00000010" Initiator waiting for job |
| | |1 | | JSABJ1SS | "B'00000001" Waiting for SPOOL space |
| 100 | (64) | X'65' | 0 | JSABJFL2 | "JSABJSTA+1,1,C'B" More JES Status flags |
| | | 1... | | JSABJ2CM | "B'10000000" Waiting for JES Cross Memory Lock (JES2 only) |
| | | .1.. | | JSABJ2SA | "B'01000000" Waiting for SAPI |
| 108 | (6C) | SIGNED | 4 | JSABRESV (5) | Reserved for future use |
| 128 | (80) | DBL WORD | 8 | JSABEND (0) | CAUSE DOUBLE WORD BOUNDARY |
| 128 | (80) | X'80' | 0 | JSABSIZE | "*-JSAB" LENGTH OF JSAB |
| 128 | (80) | X'38' | 0 | JSABBLSZ | "JSABBLND-JSABBLST" LENGTH OF CHARACTER AREA |
| 128 | (80) | X'71' | 0 | JSABCLRL | "*-JSABCLR" Length of re-use clear area |

Comment

RETURN CODES

End of Comment

| | | | | | |
|-----|------|------|---|----------|--|
| 128 | (80) | X'0' | 0 | JSABOK | "0" JSAB PROCESSING OK |
| 128 | (80) | X'4' | 0 | JSABNOST | "4" JSAB STORAGE NOT OBTAINED/RELEASED |
| 128 | (80) | X'8' | 0 | JSABNFND | "8" JSAB NOT FOUND RETURN CODE |

JSAB Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| IAZJSAB | 0 | | JSABNFND | 80 | 8 |
| JSAB | 0 | 0 | JSABNOST | 80 | 4 |
| JSABBLND | 34 | 48 | JSABNVAL | D | 80 |
| JSABBLST | F | 10 | JSABOK | 80 | 0 |
| JSABBLSZ | 80 | 38 | JSABPREF | 24 | |
| JSABCLEV | F | | JSABRESC | 34 | |
| JSABCLR | F | | JSABRESV | 6C | |
| JSABCLRL | 80 | 71 | JSABSCID | 10 | |
| JSABEND | 80 | | JSABSIZE | 80 | 80 |
| JSABESTK | 48 | | JSABSTSK | D | 40 |
| JSABFLG1 | D | | JSABUSER | 58 | |
| JSABFLG2 | E | | JSABUSID | 2C | |
| JSABGPNM | 5C | | JSABVERS | C | |
| JSABID | 0 | | JSABVRSN | C | 1 |
| JSABJBID | 14 | | JSABWKID | 14 | |
| JSABJBNM | 1C | | JSABXSTK | 50 | |
| JSABJFL1 | 64 | 64 | | | |
| JSABJFL2 | 64 | 65 | | | |
| JSABJSTA | 64 | | | | |
| JSABJ1CN | 64 | 20 | | | |
| JSABJ1IW | 64 | 2 | | | |
| JSABJ1PS | 64 | 40 | | | |
| JSABJ1RQ | 64 | 4 | | | |
| JSABJ1SP | 64 | 80 | | | |
| JSABJ1SS | 64 | 1 | | | |
| JSABJ1ST | 64 | 10 | | | |
| JSABJ1TR | 64 | 8 | | | |
| JSABJ2CM | 64 | 80 | | | |
| JSABJ2SA | 64 | 40 | | | |
| JSABLEN | 8 | | | | |
| JSABNEXT | 4 | | | | |

JSCB Programming Interface information

| | | | |
|---|------------|------------|------------|
| Programming Interface information | | | |
| <u>JSCB</u> | | | |
| <u>ONLY</u> the following fields are part of the programming interface information: | | | |
| • JSCBACT | • JSCBPASS | • JSCBQMPI | • JSCBSTEP |
| • JSCBAUTH | • JSCBPGMN | | |
| End of Programming Interface information | | | |

JSCB Heading Information

Common Name: Job/Step Control Block
Macro ID: IEZJSCB
DSECT Name: IEZJSCB
Owning Component: Initiator (SC1B6)
Eye-Catcher ID: None
Storage Attributes: Subpool: 253
 Key: 0
 Residency: Below 16 MB in virtual storage.
Size: 192 bytes
Created by: IEESB601
 IEESB606
 IEFIB600
Pointed to by: TCBJSCB field of data area TCB
 JSCBACT field of data area JSCB (active JSCB)
Serialization: None required
Function: Communication of job or step related data items. This is the base for the job step environment, in particular SWA and Allocation.

JSCB Map

| Offsets | | | | | |
|--|------|------------|-----|-------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | IEZJSCB | |
| Comment | | | | | |
| SECTION 1 DATA ITEMS USED IN OS/VS1 AND OS/VS2 | | | | | |
| End of Comment | | | | | |
| 188 | (BC) | X'BC' | 0 | JSCBSEC1 | *** - START OF JSCB SECTION 1 |
| 188 | (BC) | SIGNED | 4 | JSCRSV01 | - RESERVED |
| 192 | (C0) | ADDRESS | 4 | JSCHPCE (0) | - ADDRESS OF OPTIONAL JOB ENTRY SUBSYSTEM (JES) PROCESSOR CONTROL ELEMENT ICB459 |
| 192 | (C0) | BITSTRING | 1 | JSCRSV32 | - RESERVED ICB459 |
| 193 | (C1) | ADDRESS | 3 | JSCHPCEA | - ADDRESS OF OPTIONAL JOB ENTRY SUBSYSTEM (JES) PROCESSOR CONTROL ELEMENT ICB459 |
| 196 | (C4) | ADDRESS | 4 | JSCBSHR | - ADDRESS OF ASSEMBLY CHAIN (VSAM) ICB434 |
| 200 | (C8) | ADDRESS | 4 | JSCBTCP | - ADDRESS OF TIOT CHAINING ELEMENT CHAIN (VSAM) ICB434 |
| 204 | (CC) | ADDRESS | 4 | JSCBPCC | - ADDRESS OF PRIVATE CATALOG CONTROL BLOCK CHAIN (VSAM) ICB434 |
| 208 | (D0) | ADDRESS | 4 | JSCBTCBP | - ADDRESS OF INITIATOR'S TCB (VSAM) ICB434 |
| 212 | (D4) | ADDRESS | 4 | JSCBIJSC | - ADDRESS OF JSCB OF THE INITIATOR THAT ATTACHED THIS JOB STEP (OS/VS1) MDC003 |
| 216 | (D8) | ADDRESS | 4 | JSCBDBTB | - ADDRESS OF THE DEB TABLE FOR THIS JOB STEP (OS/VS1) MDC029 |
| 220 | (DC) | CHARACTER | 4 | JSCBID | - JOB SERIAL NUMBER (OS/VS1) |
| 224 | (E0) | ADDRESS | 4 | JSCBDCB (0) | - ADDRESS OF DCB FOR DATA SET CONTAINING SCHEDULER TABLES FOR THIS JOB |
| 224 | (E0) | BITSTRING | 1 | JSCRSV02 | - RESERVED |
| 225 | (E1) | ADDRESS | 3 | JSCBDCBA | - ADDRESS OF DCB FOR DATA SET CONTAINING SCHEDULER TABLES FOR THIS JOB |
| 228 | (E4) | SIGNED | 1 | JSCBSTEP | - CURRENT STEP NUMBER. THE FIRST STEP IS NUMBER 1. |
| 229 | (E5) | BITSTRING | 3 | JSCRSV03 | - RESERVED |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-------------|--|
| Dec | Hex | | | | |
| 232 | (E8) | ADDRESS | 4 | JSCBSECB | - ECB FOR COMMUNICATION BETWEEN MAIN STORAGE SUPERVISOR AND THE INITIATOR WHILE WAITING FOR A REGION. |
| 236 | (EC) | BITSTRING | 1 | JSCBOPTS | - OPTION SWITCHES |
| | | 1... | | JSCRSV04 | "X'80',C'X'" - RESERVED |
| | | .1.. | | JSCRSV05 | "X'40',C'X'" - RESERVED |
| | | ..1. | | JSCBLONG | "X'20'" - THE PARTITION CANNOT BE REDEFINED BECAUSE THE JOB OCCUPYING IT IS DEFINED AS LONG RUNNING (OS/VS1) ICB351 |
| | | ...1 | | JSCRSV06 | "X'10',C'X'" - RESERVED |
| | | 1... | | JSCRSV07 | "X'08',C'X'" - RESERVED |
| | |1.. | | JSCRSV08 | "X'04',C'X'" - RESERVED |
| | |1. | | JSCSIOTS | "X'02'" - CHECKPOINT MUST SCAN SIOT MDC018 |
| | |1 | | JSCBAUTH | "X'01'" - THE STEP REPRESENTED BY THIS JSCB IS AUTHORIZED TO ISSUE THE MODESET MACRO INSTRUCTION. ALTHOUGH THIS BIT HAS BEEN DESIGNATED PSPI, IBM RECOMMENDS THAT VERY CAREFUL DESIGN CONSIDERATION BE GIVEN TO IT'S USE. |
| 237 | (ED) | BITSTRING | 3 | JSCRSV10 | - RESERVED ICB351 |
| 240 | (F0) | BITSTRING | 3 | JSCRSV17 | - Reserved |
| 243 | (F3) | BITSTRING | 1 | JSCBSWT1 | - STATUS SWITCHES (OS/VS2) ICB351 |
| | | 1... | | JSCBPASS | "X'80'" - WHEN THIS BIT IS SET TO ONE AND A CORRESPONDING BIT IN THE DCB IS SET TO ONE, OPEN WILL BYPASS PASSWORD PROTECTION FOR THE DATA SET BEING OPENED (OS/VS2). ALTHOUGH THIS BIT HAS BEEN DESIGNATED PSPI, IBM RECOMMENDS THAT VERY CAREFUL DESIGN CONSIDERATION BE GIVEN TO IT'S USE. |
| | | .1.. | | JSCRSV11 | "X'40',C'X'" - RESERVED |
| | | .1.. | | JSCRSV12 | "X'20',C'X'" - RESERVED |
| | | ...1 | | JSCRSV13 | "X'10',C'X'" - RESERVED |
| | | 1... | | JSCRSV14 | "X'08',C'X'" - RESERVED |
| | |1.. | | JSCRSV15 | "X'04',C'X'" - RESERVED |
| | |1. | | JSCRSV16 | "X'02',C'X'" - RESERVED |
| | |1 | | JSCBPMMSG | "X'01'" - A MESSAGE HAS BEEN ISSUED BECAUSE THE DUMP DATA SET WAS NOT SUCCESSFULLY OPENED. PREVENTS USE OF MULTIPLE SMB'S FOR MULTIPLE OPEN FAILURES IN JOB STEP. (OS/VS2) ICB351 |
| 244 | (F4) | ADDRESS | 4 | JSCBQMPI | - ADDRESS OF THE QUEUE MANAGER PARAMETER AREA (QMPA) FOR THE JOB'S INPUT QUEUE TABLE ENTRIES (OS/VS2) |
| 248 | (F8) | ADDRESS | 4 | JSCBJESW | - ADDRESS OF THE JES WORKAREA |
| 252 | (FC) | CHARACTER | 4 | JSCBWTP (0) | - WRITE-TO-PROGRAMMER (WTP) DATA |
| 252 | (FC) | BITSTRING | 1 | JSCBWTFG | - FLAGS USED BY WTP SUPPORT |
| | | 1... | | JSCBIOFG | "X'80'" - THE PREVIOUS WTP I/O OPERATION HAD AN I/O ERROR |
| | | .1.. | | JSCBRET | "X'40'" - TEXT BREAKING INDICATOR, ADDITIONAL MESSAGE TEXT SCANNING REQUIRED (OS/VS1) ICB470 |
| | | ..1. | | JSCBBMO | "X'20'" - Buffer Messages Only flag. Set by IEFAB4B2 when an SMS Message is being processed that is being directed to the Programmer when Monitor Status is active. Checked by IEEAB400 to avoid a WTO that was already issued by IEFAB4B2. |
| | | ...1 | | JSCRSV19 | "X'10',C'X'" - RESERVED |
| | | 1... | | JSCRSV20 | "X'08',C'X'" - RESERVED |
| | |1.. | | JSCRSV21 | "X'04',C'X'" - RESERVED |
| | |1. | | JSCRSV22 | "X'02',C'X'" - RESERVED |
| | |1 | | JSCRSV23 | "X'01',C'X'" - RESERVED |
| 253 | (FD) | SIGNED | 1 | JSCBWTSP | - NUMBER OF THE LAST JOB STEP TO ISSUE WTP |
| 254 | (FE) | SIGNED | 2 | JSCBPMG | - NUMBER OF WTP OPERATIONS ISSUED FOR THE STEP IDENTIFIED BY JSCBWTSP |

JSCB Map

| Offsets | | | | | |
|--|-------|------------|-----|--------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 256 | (100) | ADDRESS | 4 | JSCBCSCB | - ADDRESS OF COMMAND SCHEDULING CONTROL BLOCK (CSCB) USED TO PROCESS COMMANDS RECEIVED FOR THIS JOB STEP ICB351 |
| 256 | (100) | X'48' | 0 | JSCBS1LN | "(*-JSCBSEC1)" - LENGTH OF SECTION 1 |
| Comment | | | | | |
| SECTION 2 DATA ITEMS USED ONLY IN OS/VS1 | | | | | |
| End of Comment | | | | | |
| 256 | (100) | X'104' | 0 | JSCBSEC2 | *** - START OF JSCB SECTION 2 ICB351 |
| Comment | | | | | |
| CURRENTLY NO OS/VS1 ONLY DATA ITEMS ICB351 | | | | | |
| End of Comment | | | | | |
| 256 | (100) | X'0' | 0 | JSCBS2LN | "(*-JSCBSEC2)" - LENGTH OF SECTION 2 ICB351 |
| Comment | | | | | |
| SECTION 3 DATA ITEMS USED ONLY IN OS/VS2 | | | | | |
| End of Comment | | | | | |
| 260 | (104) | X'104' | 0 | JSCBSEC3 | *** - START OF JSCB SECTION 3 ICB351 |
| 260 | (104) | SIGNED | 4 | JSCBJCT (0) | - Structure containing SVA of JCT |
| 260 | (104) | BITSTRING | 1 | JSCRSV24 | - RESERVED ICB351 |
| 261 | (105) | CHARACTER | 3 | JSCJCTP (0) | - ALIAS FOR JSCBJCTA MDC025 |
| 261 | (105) | CHARACTER | 3 | JSCBJCTA | - SVA of JCT, use SWAREQ to convert to a pointer |
| 264 | (108) | ADDRESS | 4 | JSCBPSCB | - ADDRESS OF TSO PROTECTED STEP CONTROL BLOCK |
| 268 | (10C) | SIGNED | 2 | JSCBASID (0) | - ADDRESS SPACE IDENTIFIER (MDC028) YM0446 |
| 268 | (10C) | SIGNED | 2 | JSCBTJID | - TSO TERMINAL JOB IDENTIFIER |
| 270 | (10E) | BITSTRING | 1 | JSCBFBYT | - FLAG BYTE (MDC300) |
| | | 1... | | JSCBRV01 | "X'80',C'X'" - RESERVED |
| | | .1.. | | JSCBADSP | "X'40'" - AUTOMATIC DATA SET PROTECTION FOR THIS USER (MDC302) |
| | | ..1. | | JSCBRV02 | "X'20',C'X'" - RESERVED |
| | | 1... | | JSCBRV03 | "X'10',C'X'" - RESERVED |
| | | 1... | | JSCBSJFY | "X'08'" - Used by BB131 |
| | |1.. | | JSCBSJFN | "X'04'" - Used by BB131 |
| | |1. | | JSCBRV06 | "X'02',C'X'" - RESERVED |
| | |1 | | JSCBRV07 | "X'01',C'X'" - RESERVED |
| 271 | (10F) | BITSTRING | 1 | JSCBRV08 | - RESERVED |
| 272 | (110) | SIGNED | 4 | JSCBIECB | - ECB USED FOR COMMUNICATION BETWEEN DYNAMIC ALLOCATION AND THE INITIATOR IN ORDER TO PERFORM DATA SET INTEGRITY |
| 276 | (114) | CHARACTER | 8 | JSCBJRBA | - JOB JOURNAL RELATIVE BYTE ADDRESS (RBA) (MDC031) YM7086 |
| 284 | (11C) | ADDRESS | 4 | JSCBALOC | - ADDRESS OF THE ALLOCATION WORK AREA |
| 288 | (120) | ADDRESS | 4 | JSCBJNL (0) | - INITIATOR JSCB ONLY - ADDRESS OF JSCB FOR STEP BEING INITIATED. OTHERWISE, ZERO ICB431 |
| 288 | (120) | BITSTRING | 1 | JSCBJJSB | - JOB JOURNAL STATUS INDICATORS ICB332 |
| | | 1... | | JSCBJNLN | "X'80'" - NOTHING SHOULD BE WRITTEN IN JOURNAL ICB332 |
| | | .1.. | | JSCBJNLF | "X'40'" - NO JOB JOURNAL MDC017 |
| | | .1. | | JSCBJNLE | "X'20'" - ERROR IN JOURNAL, DO NOT WRITE ICB332 |
| Comment | | | | | |
| EQU X'10' - RESERVED (WAS JSCBJSBJ) MDC001 | | | | | |
| End of Comment | | | | | |
| | | 1... | | JSCBJSBI | "X'08'" - JOB HAS NOT ENTERED ALLOCATION FOR THE FIRST TIME ICB332 |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|--------------|---|
| Dec | Hex | | | | |
| | |1.. | | JSCBJSBA | "X'04" - JOB HAS ENTERED ALLOCATION ICB332 |
| | |1. | | JSCBJSBX | "X'02" - JOB HAS COMPLETED ALLOCATION ICB332 |
| | |1 | | JSCBJSBT | "X'01" - JOB HAS ENTERED TERMINATION ICB332 |
| 289 | (121) | ADDRESS | 3 | JSCBJNLA | - INITIATOR JSCB ONLY - ADDRESS OF JSCB FOR STEP BEING INITIATED. OTHERWISE, ZERO ICB431 |
| 292 | (124) | ADDRESS | 4 | JSCBJNLR | - POINTER TO JOB JOURNAL RPL MDC023 |
| 296 | (128) | ADDRESS | 4 | JSCBSMLR | - ADDRESS OF SYSTEM MESSAGE DATA SET RPL MDC024 |
| 300 | (12C) | ADDRESS | 4 | JSCBSUB (0) | - ADDRESS OF JES-SUBTL FOR THIS JOB STEP ICB333 |
| 300 | (12C) | BITSTRING | 1 | JSCRSV31 | - RESERVED ICB333 |
| 301 | (12D) | ADDRESS | 3 | JSCBSUBA | - ADDRESS OF JES-SUBTL FOR THIS JOB STEP ICB333 |
| 304 | (130) | SIGNED | 2 | JSCBSONO | - THE NUMBER OF SYSOUT DATA SETS PLUS ONE ICB335 |
| 306 | (132) | SIGNED | 2 | JSCRSV28 | - RESERVED |
| 308 | (134) | CHARACTER | 8 | JSCBFRBA | - RELATIVE BYTE ADDRESS (RBA) OF THE FIRST JOURNAL BLOCK (MDC032) YM7086 |
| 316 | (13C) | ADDRESS | 4 | JSCBSSIB | - ADDRESS OF THE SUBSYSTEM IDENTIFICATION BLOCK MDC021 |
| 320 | (140) | ADDRESS | 4 | JSCDSABQ | - ADDRESS OF QDB FOR DSAB CHAIN MDC007 |
| 324 | (144) | ADDRESS | 4 | JSCBASW2 | - POINTER TO THE ALLOCATION STAE WORK AREA |
| 328 | (148) | SIGNED | 4 | JSCSCT (0) | - Structure containing SVA of SCT |
| 328 | (148) | BITSTRING | 1 | JSCRSV55 | - RESERVED |
| 329 | (149) | CHARACTER | 3 | JSCSCTP | - SVA of SCT, use SWAREQ to convert to a pointer |
| 332 | (14C) | ADDRESS | 4 | JSCMTCOR | - ADDRESS OF TIOT MAIN STORAGE MANAGEMENT AREA MDC010 |
| 336 | (150) | ADDRESS | 4 | JSCBVATA | - ADDRESS OF VAT USED DURING SYSTEM RESTART OR AUTOMATIC RESTART MDC011 |
| 340 | (154) | SIGNED | 2 | JSCDDNNO | - COUNTER USED BY DYNAMIC ALLOCATION TO GENERATE DD NAMES MDC012 |
| 342 | (156) | SIGNED | 2 | JSCBODNO | - COUNTER USED BY DYNAMIC OUTPUT TO GENERATE OUTPUT DESCRIPTOR NAMES. THIS NUMBER INCREASES OVER THE LIFE OF THE JOB AND WRAPS. |
| 344 | (158) | SIGNED | 2 | JSCDDNUM | - NUMBER OF DD ENTRIES CURRENTLY ALLOCATED INCLUDING IN USE AND NOT IN USE ENTRIES MDC022 |
| 346 | (15A) | BITSTRING | 1 | JSCRSV33 | - RESERVED MDC019 |
| 347 | (15B) | SIGNED | 1 | JSCBSWSP | - SWA SUBPOOL MDC015 |
| 348 | (15C) | ADDRESS | 4 | JSCBACT | - POINTER TO ACTIVE JSCB MDC014 |
| 352 | (160) | ADDRESS | 4 | JSCBUFPT | - ADDRESS OF ALLOCATION/UNALLOCATION WRITE-TO-PROGRAMMER BUFFER MDC030 |
| 356 | (164) | ADDRESS | 4 | JSCBASWA | - POINTER TO THE LAST ALLOCATION ESTAE WORK AREA (MDC303) |
| 360 | (168) | CHARACTER | 8 | JSCBPGMN (0) | - JOB STEP PROGRAM NAME (MDC304) |
| 360 | (168) | ADDRESS | 4 | JSCBECB1 | - ADDR OF CANCEL ECB WHILE WAITING FOR A REGION (IEFSD363) |
| 364 | (16C) | ADDRESS | 4 | JSCBECB2 | - ADDR OF WAIT FOR REGION ECB WHILE WAITING FOR A REGION (IEFSD263) |
| 368 | (170) | ADDRESS | 4 | JSCDSNQP | - Pointer to the first DSENG Table |
| 372 | (174) | ADDRESS | 4 | JSCBCSCX | - ADDRESS OF CSCX EXTENSION TO CSCB 6 |
| 376 | (178) | SIGNED | 4 | JSCAMCPL | - ALLOCATION MESSAGE CELLPOOL ID |
| 376 | (178) | X'78' | 0 | JSCBS3LN | "(*-JSCBSEC3)" - LENGTH OF SECTION 3 ICB351 |
| 376 | (178) | X'BC' | 0 | JSCBDISP | "(260-JSCBS1LN)" - DISPLACEMENT OF FIRST JSCB DATA BYTE |
| 376 | (178) | X'48' | 0 | JSCBAOS1 | "JSCBS1LN+JSCBS2LN" - OS/VS1 JSCB LENGTH ICB351 |
| 376 | (178) | X'CO' | 0 | JSCBAOS2 | "JSCBS1LN+JSCBS3LN" - OS/VS2 JSCB LENGTH ICB332 |

Comment

END OF JSCB

End of Comment

JSCB Cross Reference

JSCB Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| IEZJSCB | 0 | | JSCBSJFN | 10E | 4 |
| JSCAMCPL | 178 | | JSCBSJFY | 10E | 8 |
| JSCBACT | 15C | | JSCBSMLR | 128 | |
| JSCBADSP | 10E | 40 | JSCBSONO | 130 | |
| JSCBALOC | 11C | | JSCBSSIB | 13C | |
| JSCBAOS1 | 178 | 48 | JSCBSTEP | E4 | |
| JSCBAOS2 | 178 | C0 | JSCBSUB | 12C | |
| JSCBASID | 10C | | JSCBSUBA | 12D | |
| JSCBASWA | 164 | | JSCBSWSP | 15B | |
| JSCBASW2 | 144 | | JSCBSWT1 | F3 | |
| JSCBAUTH | EC | 1 | JSCBS1LN | 100 | 48 |
| JSCBBMO | FC | 20 | JSCBS2LN | 100 | 0 |
| JSCBCSCB | 100 | | JSCBS3LN | 178 | 78 |
| JSCBCSCX | 174 | | JSCBTCBP | D0 | |
| JSCBDBTB | D8 | | JSCBTCB | C8 | |
| JSCBDCB | E0 | | JSCBTJID | 10C | |
| JSCBDCBA | E1 | | JSCBUFPT | 160 | |
| JSCBDISP | 178 | BC | JSCBVATA | 150 | |
| JSCBECB1 | 168 | | JSCBWTFG | FC | |
| JSCBECB2 | 16C | | JSCBWTP | FC | |
| JSCBFBYT | 10E | | JSCBWTSP | FD | |
| JSCBFRBA | 134 | | JSCDDNNO | 154 | |
| JSCBID | DC | | JSCDDNUM | 158 | |
| JSCBIECB | 110 | | JSCDSABQ | 140 | |
| JSCBIJSC | D4 | | JSCDSNQP | 170 | |
| JSCBIOFG | FC | 80 | JSCHPCE | C0 | |
| JSCBJCT | 104 | | JSCHPCEA | C1 | |
| JSCBJCTA | 105 | | JSCJCTP | 105 | |
| JSCBJESW | F8 | | JSCRSV01 | BC | |
| JSCBJJSB | 120 | | JSCRSV02 | E0 | |
| JSCBJNL | 120 | | JSCRSV03 | E5 | |
| JSCBJNLA | 121 | | JSCRSV04 | EC | 80 |
| JSCBJNLE | 120 | 20 | JSCRSV05 | EC | 40 |
| JSCBJNLF | 120 | 40 | JSCRSV06 | EC | 10 |
| JSCBJNLN | 120 | 80 | JSCRSV07 | EC | 8 |
| JSCBJNLR | 124 | | JSCRSV08 | EC | 4 |
| JSCBJRBA | 114 | | JSCRSV10 | ED | |
| JSCBJSBA | 120 | 4 | JSCRSV11 | F3 | 40 |
| JSCBJSBI | 120 | 8 | JSCRSV12 | F3 | 20 |
| JSCBJSBT | 120 | 1 | JSCRSV13 | F3 | 10 |
| JSCBJSBX | 120 | 2 | JSCRSV14 | F3 | 8 |
| JSCBLONG | EC | 20 | JSCRSV15 | F3 | 4 |
| JSCBODNO | 156 | | JSCRSV16 | F3 | 2 |
| JSCBOPTS | EC | | JSCRSV17 | F0 | |
| JSCBPASS | F3 | 80 | JSCRSV19 | FC | 10 |
| JSCBPCC | CC | | JSCRSV20 | FC | 8 |
| JSCBPGMN | 168 | | JSCRSV21 | FC | 4 |
| JSCBPMG | FE | | JSCRSV22 | FC | 2 |
| JSCBPMSG | F3 | 1 | JSCRSV23 | FC | 1 |
| JSCBPSCB | 108 | | JSCRSV24 | 104 | |
| JSCBQMPI | F4 | | JSCRSV28 | 132 | |
| JSCBRET | FC | 40 | JSCRSV31 | 12C | |
| JSCBRV01 | 10E | 80 | JSCRSV32 | C0 | |
| JSCBRV02 | 10E | 20 | JSCRSV33 | 15A | |
| JSCBRV03 | 10E | 10 | JSCRSV55 | 148 | |
| JSCBRV06 | 10E | 2 | JSCSCT | 148 | |
| JSCBRV07 | 10E | 1 | JSCSCTP | 149 | |
| JSCBRV08 | 10F | | JSCSIOTS | EC | 2 |
| JSCBSECB | E8 | | JSCTMCOR | 14C | |
| JSCBSEC1 | BC | BC | | | |
| JSCBSEC2 | 100 | 104 | | | |
| JSCBSEC3 | 104 | 104 | | | |
| JSCBSHR | C4 | | | | |

JSIPL Programming Interface information

Programming Interface information

JSIPL

End of Programming Interface information

JSIPL Heading Information

Common Name: Subsystem initialization parameter list
Macro ID: IEFJSIPL
DSECT Name: JSIPL
Owning Component: Subsystem Interface (SC1B6)
Eye-Catcher ID: None
Storage Attributes: Subpool: 230
 Key: 0
Size: 32 bytes
Created by: IEFJSBLD
Pointed to by: On entry to the initialization routine, register 1 points to a two-word parameter list and the second word points to IEFJSIPL.
Serialization: None
Function: Defines the subsystem initialization routine parameter list. This parameter list points to the user parameters specified in parmlib member IEFSSNxx, the IEFSSI macro, or the SETSSI command.

JSIPL Map

| Offsets | | | | | |
|---------|------|------------|-----|------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | JSIPL | |
| 0 | (0) | BITSTRING | 1 | JSILGTH | Length of the parameter list |
| 1 | (1) | BITSTRING | 1 | JSICONID | Reserved - always 0 |
| 2 | (2) | BITSTRING | 1 | JSILGTPR | Length of the parameter string specified in the IEFSSNxx parmlib member, IEFSSI macro invocation, or SETSSI command that defined this subsystem. Length does not include any enclosing apostrophes, which are not passed to the initialization routine. |
| 3 | (3) | BITSTRING | 1 | JSIVER | Version of parameter list |
| 4 | (4) | ADDRESS | 4 | JSIADRPR | Address of the parameter string specified in the IEFSSNxx parmlib member, IEFSSI macro invocation, or SETSSI command that defined this subsystem. |
| 8 | (8) | SIGNED | 4 | JSIRSV1 | Reserved |
| 12 | (C) | SIGNED | 4 | JSICNSID | Console id to be used when issuing WTOs. This field is not valid and is always 0 for subsystems defined through IEFSSNxx, IEFSSI, or SETSSI. |
| 16 | (10) | CHARACTER | 8 | JSICART | Command and response token. This field is not valid and is always 0 for subsystems defined through IEFSSNxx, IEFSSI, or SETSSI. |
| 24 | (18) | CHARACTER | 8 | JSICNAME | Console name to be used by subsystem initialization routine when issuing WTOs |
| 24 | (18) | X'20' | 0 | JSIPLGTH | "*-JSIPL" Length of initialization parameter list |
| 24 | (18) | X'1' | 0 | JSIVER1 | "1" Version 1 |
| 24 | (18) | X'2' | 0 | JSIVER2 | "2" Version 2 |
| 24 | (18) | X'2' | 0 | JSICVER | "JSIVER2" Current version number |

JSIPL Cross Reference

| Name | Hex Offset | Hex Value |
|-------------|-----------------------|----------------------|
| JSIADRPR | 4 | |
| JSICART | 10 | |
| JSICNAME | 18 | |
| JSICNSID | C | |
| JSICONID | 1 | |
| JSICVER | 18 | 2 |
| JSILGTH | 0 | |
| JSILGTPR | 2 | |
| JSIPL | 0 | |
| JSIPLGTH | 18 | 20 |
| JSIRSV1 | 8 | |
| JSIVER | 3 | |
| JSIVER1 | 18 | 1 |
| JSIVER2 | 18 | 2 |

JSPA Programming Interface information

Programming Interface information

JSPA

End of Programming Interface information

JSPA Heading Information

| | |
|----------------------------|--|
| Common Name: | Job Separator Page Data Area |
| Macro ID: | IAZJSPA |
| DSECT Name: | IAZJSPA or JSPA for the common section. JSPEXT for the JSPA extension. |
| Owning Component: | JES Common Component (SC141) |
| Eye-Catcher ID: | 'JSPA' |
| | Offset: JSPAID-JSPA |
| | Length: 04 |
| Storage Attributes: | Subpool: 230 (for JES2 and JES3), 241 (for JES3), As defined by FSCBCBSP in IATYFSCB (for JES3) |
| | Key: 1 |
| | Residency: For JES3 and JES2, anywhere (above or below 16M) if the FSS is running 31-bit mode, else below the 16M line. Private storage in the FSS address space. |
| Size: | JSPASIZE - Equate for the size of the common section (common section + JES section + user section), JSPEXSIZE - Equate for the size of the JSPA extension, JSPEJSPS - Equate for the size of the JSPA base section plus the size of one JSPA extension |
| Created by: | The JES2 and JES3 Get Data Set (GETDS) routines. |
| Pointed to by: | GDSJSPA field of the IAZFSIP data area For JES2, the JSPA is contained within the JOE Information Block (\$JIB) starting at label JIBJSPA. For JES3, the JSPA is contained within the FSI Service Request List (IATYSRL). |
| Serialization: | None required |
| Function: | IAZJSPA maps the JES Job Separator Page Data Area. The JSPA is used to transmit information about the returned data set to produce header and trailer pages in FSS-supplied exits. |

Extension areas may exist after the JSPA base as indicated by the JSPA1EXT bit of flag JSPAFLG1. The extension area begins at label JSPEXT. A header area is defined to prefix all extensions. The first halfword of this area (JSPEXNUM) is the number of extensions. The second halfword is the length of all extensions. The next four words are reserved for future use. Immediately following the header area is the first JSPA extension - the common area extension. To obtain the address of the extension header, add the content of JSPALEN to the address of the JSPA.

For JES3, the JSPA resides within the Service Request List (IATYSRL). The SRL/JSPA is initially built in the FSS address space and then sent to the JES3 Global address space through the SSISERV service. While in the JES3 address space, the SRL/JSPA resides within a Staging Area (IATYSTA).

JSPA Map

| Offsets | | | | | |
|---------|-----|------------|-----|------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | IAZJSPA | |
| 0 | (0) | X'0' | 0 | JSPA | "IAZJSPA" ALTERNATE DSECT NAME |
| 0 | (0) | CHARACTER | 4 | JSPAID | JSPA PARAMETER LIST ID |
| 4 | (4) | SIGNED | 2 | JSPALEN | LENGTH OF THE JSPA BASE (DOES NOT INCLUDE THE JSPA EXTENSION) |
| 6 | (6) | ADDRESS | 1 | JSPAFLG1 | FLAG BYTE |
| | | 1... .. | | JSPA1CON | "B'10000000" OUTPUT GROUP CONTINUATION |

| Offsets | | | | | |
|---------|------|------------|-----|------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| | | .1.. | | JSPA1EXT | "B'01000000" EXTENSION AREA IS PRESENT |
| | | ..1. | | JSPA1UND | "B'00100000" USERID JSPCEUID UNDEFINED |
| | | ...1 | | JSPA4DG | "B'00010000" Device Number (JSPADEVA) in 4-Digit format |
| 7 | (7) | ADDRESS | 1 | | RESERVED |
| 8 | (8) | CHARACTER | 8 | JSPAJBNM | JOB NAME |
| 16 | (10) | CHARACTER | 8 | JSPAJBID | JOB ID |
| 24 | (18) | CHARACTER | 8 | JSPADEVN | DEVICE NAME |
| 32 | (20) | CHARACTER | 4 | JSPADEVA | Device Address in EBCDIC |
| 36 | (24) | SIGNED | 4 | JSPAJMR | JMR ADDRESS |
| 36 | (24) | X'28' | 0 | JSPABEND | **JSPA" SIZE OF JSPA BASE SECTION |

Comment

JES DEPENDENT SECTION - FIELDS DETERMINED BY THE JES

| | | | | | |
|----------------|------|-----------|----|--------------|---|
| End of Comment | | | | | |
| 40 | (28) | SIGNED | 4 | JSPAJES (0) | JES DEPENDENT DATA AREA |
| 40 | (28) | CHARACTER | 8 | JSPJGRPN | OUTPUT GROUP NAME |
| 48 | (30) | SIGNED | 2 | JSPJGRP1 | OUTPUT GROUP ID 1 |
| 50 | (32) | SIGNED | 2 | JSPJGRP2 | OUTPUT GROUP ID 2 |
| 52 | (34) | CHARACTER | 8 | JSPJGRPD | OUTPUT GROUP DESTINATION NAME |
| 60 | (3C) | CHARACTER | 4 | JSPJRMNO | ROOM ROUTING NUMBER |
| 64 | (40) | CHARACTER | 20 | JSPJPNAM | PROGRAMMER NAME |
| 84 | (54) | CHARACTER | 24 | JSPJDSNM (0) | DATA SET NAME, FULLY QUALIFIED |
| 84 | (54) | CHARACTER | 8 | JSPJDSPN | DATA SET PROCEDURE NAME |
| 92 | (5C) | CHARACTER | 8 | JSPJDSSN | DATA SET STEP NAME |
| 100 | (64) | CHARACTER | 8 | JSPJDSDD | DATA SET DD NAME |
| 108 | (6C) | CHARACTER | 1 | JSPJSOCL | SYSOUT CLASS |
| 109 | (6D) | CHARACTER | 1 | JSPJPRIOR | DATA SET PRIORITY |
| 112 | (70) | SIGNED | 4 | JSPJEND (0) | END OF JES DEPENDENT SECTION |
| 112 | (70) | X'48' | 0 | JSPJSIZE | "JSPJEND-JSPAJES" SIZE OF JES JSPA AREA |

Comment

USER DEPENDENT SECTION - USER RELATED FIELDS

| | | | | | |
|----------------|------|--------|---|--------------|---|
| End of Comment | | | | | |
| 112 | (70) | SIGNED | 4 | JSPAUSER (0) | USER DEPENDENT DATA AREA |
| 112 | (70) | SIGNED | 4 | JSPAUSR1 | RESERVED FOR USER |
| 116 | (74) | SIGNED | 4 | JSPAUSR2 | RESERVED FOR USER |
| 120 | (78) | SIGNED | 4 | JSPUEND (0) | END OF USER DEPENDENT SECTION |
| 120 | (78) | X'8' | 0 | JSPUSIZE | "JSPUEND-JSPAUSER" SIZE OF USER JSPA AREA |
| 120 | (78) | SIGNED | 4 | JSPAEND (0) | END OF COMMON JSPA BASE |
| 120 | (78) | X'78' | 0 | JSPASIZE | **JSPA" SIZE OF JSPA (BASE, JES, USER) |
| 120 | (78) | X'78' | 0 | JSPABLEN | "JSPASIZE" SIZE OF JSPA (FOR SP 1.3.3) |

| Offsets | | | | | |
|---------|------|------------|-----|-------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | JSPEXT | JSPA EXTENSION AREA |
| 0 | (0) | SIGNED | 2 | JSPXNUM | NUMBER OF EXTENSIONS |
| 2 | (2) | SIGNED | 2 | JSPXLEN | LENGTH OF ALL EXTENSIONS |
| 4 | (4) | SIGNED | 4 | | RESERVED |
| 8 | (8) | SIGNED | 4 | | RESERVED |
| 12 | (C) | SIGNED | 4 | | RESERVED |
| 16 | (10) | SIGNED | 4 | | RESERVED |
| 16 | (10) | X'14' | 0 | JSPHSIZE | **JSPEXT" JSPA EXTENSION AREA HEADER SIZE |
| 20 | (14) | SIGNED | 4 | JSPCEXT (0) | START OF COMMON EXTENSION |
| 20 | (14) | SIGNED | 2 | JSPCELEN | LENGTH OF COMMON EXTENSION AREA |
| 22 | (16) | SIGNED | 2 | JSPCEVSN | VERSION NUMBER |
| 24 | (18) | SIGNED | 4 | JSPCECID | COMMON AREA EXTENSION ID |
| 24 | (18) | X'1' | 0 | JSPCEXTI | "1" IBM COMMON EXTENSION |
| 28 | (1C) | CHARACTER | 8 | JSPCEUID | USERID |

JSPA Cross Reference

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|--|
| Dec | Hex | | | | |
| 36 | (24) | CHARACTER | 8 | JSPCESEC | SECURITY LABEL |
| 44 | (2C) | CHARACTER | 53 | JSPCEDSN | DATASET RESOURCE NAME |
| 97 | (61) | CHARACTER | 3 | | RESERVED |
| 100 | (64) | SIGNED | 4 | JSPCESEG | SEGMENT ID |
| 100 | (64) | X'54' | 0 | JSPECSZE | "*-JSPCEXT" JSPA EXTENSION AREA COMMON SIZE |
| 100 | (64) | X'68' | 0 | JSPESIZE | "JSPEHSZE+JSPECSZE" JSPA EXTENSION HEADER PLUS EXTENSION COMMON AREA SIZE |
| 100 | (64) | X'E0' | 0 | JSPEJSPS | "JSPASIZE+JSPESIZE" JSPA BASE PLUS JSPA EXTENSION SIZE |
| 100 | (64) | X'3' | 0 | JSPCEVNM | "3" CURRENT VERSION NUMBER |

JSPA Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------|---------------|--------------|----------|---------------|--------------|
| IAZJSPA | 0 | | JSPJPRI0 | 6D | |
| JSPA | 0 | 0 | JSPJRMNO | 3C | |
| JSPABEND | 24 | 28 | JSPJSIZE | 70 | 48 |
| JSPABLEN | 78 | 78 | JSPJSOCL | 6C | |
| JSPADEVA | 20 | | JSPUEND | 78 | |
| JSPADEVN | 18 | | JSPUSIZE | 78 | 8 |
| JSPAEND | 78 | | | | |
| JSPAFLG1 | 6 | | | | |
| JSPAID | 0 | | | | |
| JSPAJBID | 10 | | | | |
| JSPAJBNM | 8 | | | | |
| JSPAJES | 28 | | | | |
| JSPAJMR | 24 | | | | |
| JSPALEN | 4 | | | | |
| JSPASIZE | 78 | 78 | | | |
| JSPAUSER | 70 | | | | |
| JSPAUSR1 | 70 | | | | |
| JSPAUSR2 | 74 | | | | |
| JSPA1CON | 6 | 80 | | | |
| JSPA1EXT | 6 | 40 | | | |
| JSPA1UND | 6 | 20 | | | |
| JSPA4DG | 6 | 10 | | | |
| JSPCECID | 18 | | | | |
| JSPCEDSN | 2C | | | | |
| JSPCELEN | 14 | | | | |
| JSPCESEC | 24 | | | | |
| JSPCESEG | 64 | | | | |
| JSPCEUID | 1C | | | | |
| JSPCEVNM | 64 | 3 | | | |
| JSPCEVSN | 16 | | | | |
| JSPCEXT | 14 | | | | |
| JSPCEXTI | 18 | 1 | | | |
| JSPECSZE | 64 | 54 | | | |
| JSPEHSZE | 10 | 14 | | | |
| JSPEJSPS | 64 | E0 | | | |
| JSPESIZE | 64 | 68 | | | |
| JSPEXLEN | 2 | | | | |
| JSPEXNUM | 0 | | | | |
| JSPEXT | 0 | | | | |
| JSPJDSDD | 64 | | | | |
| JSPJDSNM | 54 | | | | |
| JSPJDSPN | 54 | | | | |
| JSPJDSSN | 5C | | | | |
| JSPJEND | 70 | | | | |
| JSPJGRPD | 34 | | | | |
| JSPJGRPN | 28 | | | | |
| JSPJGRP1 | 30 | | | | |
| JSPJGRP2 | 32 | | | | |
| JSPJPNAM | 40 | | | | |

LCCA Heading Information

Common Name: Logical Configuration Communication Area
Macro ID: IHALCCA
DSECT Name: LCCA
Owning Component: Supervisor Control (SC1C5)
Eye-Catcher ID: LCCA
 Offset: 0
 Length: 4
Storage Attributes: Subpool: 239
 Key: 0
Size: OFFSET OF LCCAEND MINUS THE OFFSET OF LCCA
Created by: IEAVNIP0
 IEEVCPRA
Pointed to by: PSALCCAV field of the PSA data area
 PSALCCAR field of the PSA data area
 LCCATxxP field of the LCCAVT data area
 (where xx is the processor number)
 LCCADCPU field of the LCCA data area
 (failing processor's LCCA)
 LCCARCPU field of the LCCA data area
 (recovering processor's LCCA)
Serialization: Disablement
Function: Contains processor related data.

LCCA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|---------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | LCCA | |
| 0 | (0) | CHARACTER | 4 | LCCALCCA | - CONTROL BLOCK ACRONYM IN EBCDIC |
| 4 | (4) | SIGNED | 2 | LCCACPUA | - LOGICAL CPU ADDRESS |
| 6 | (6) | SIGNED | 2 | LCCACAFM | - BIT MASK CORRESPONDING TO LOGICAL CPU ADDRESS |
| 8 | (8) | SIGNED | 4 | LCCAPGR1 (16) | - PROGRAM FLIH RECURSION REGISTER SAVE AREA 1 |
| 72 | (48) | SIGNED | 4 | LCCAPGR2 (16) | - PROGRAM FLIH MAIN ENTRY REGISTER SAVE AREA (MDC346) |
| 136 | (88) | BITSTRING | 8 | LCCAPPSW | - PROGRAM FLIH MAIN ENTRY PSW SAVE AREA |
| 144 | (90) | SIGNED | 4 | LCCAPINT (0) | - PROGRAM FLIH MAIN ENTRY ILC AND INTERRUPT CODE SAVE AREA |
| 144 | (90) | BITSTRING | 1 | | - RESERVED - SET TO 0 |
| 145 | (91) | BITSTRING | 1 | LCCAPILC | - INSTRUCTION LENGTH CODE |
| 146 | (92) | BITSTRING | 1 | LCCAPEEC | - EXCEPTION - EXTENSION CODE |
| 147 | (93) | BITSTRING | 1 | LCCAPICD | - PROGRAM INTERRUPT CODE |
| | | 1... | | LCCAPPER | "X'80" - PER BIT IN INTERRUPT CODE |
| | | .1.. | | LCCAPMC | "X'40" - MC BIT IN INTERRUPT CODE |
| 148 | (94) | SIGNED | 4 | LCCAPVAD (0) | - PROGRAM FLIH MAIN ENTRY TRANSLATION EXCEPTION ADDRESS SAVE AREA |
| 148 | (94) | BITSTRING | 3 | | - FIRST THREE BYTES OF ADDRESS |
| | | 1... | | LCCAPVXM | "X'80" - TEA MODE STATE 0 = PRIMARY 1 = SECONDARY (MDC338) |
| 151 | (97) | BITSTRING | 1 | LCCAPDXC (0) | - Data exception code for PI 7 |
| 151 | (97) | BITSTRING | 1 | LCCAPSTD | - LAST BYTE OF LCCAPVAD |
|  |  | .... .... |  | LCCAPSTP | "X'00" - THE PRIMARY STD WAS USED |
| | |1 | | LCCAPSTA | "X'01" - THE STD WAS AR QUALIFIED |
| | |1. | | LCCAPSTS | "X'02" - THE SECONDARY STD WAS USED |
| | |11 | | LCCAPSTH | "X'03" - THE HOME STD WAS USED |
| | |1.. | | LCCASOPI | "X'04" - Suppression-On-Protection indicator |

LCCA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|-----------------------|-------|------------|-----|---------------|---|
| Dec | Hex | | | | |
| Comment | | | | | |
| DC XL3'00' - Reserved | | | | | |
| End of Comment | | | | | |
| 152 | (98) | BITSTRING | 1 | LCCAPICC | - LCCAPICD without PER bit. Should it also be without MC? |
| 156 | (9C) | SIGNED | 4 | LCCACR0 | - WORK AREA FOR TESTING BITS IN CONTROL REGISTER 0 |
| 160 | (A0) | SIGNED | 4 | LCCAPGR3 (16) | - PROGRAM FLIH RECURSION REGISTER SAVE AREA 3 |
| 224 | (E0) | BITSTRING | 64 | LCCAPAR2 (0) | - PROGRAM FLIH MAINLINE ACCESS REGISTER SAVEAREA 2 |
| 224 | (E0) | SIGNED | 4 | LCCAP2A0 | - ACCESS REGISTER 0 |
| 228 | (E4) | SIGNED | 4 | LCCAP2A1 | - ACCESS REGISTER 1 |
| 232 | (E8) | SIGNED | 4 | LCCAP2A2 | - ACCESS REGISTER 2 |
| 236 | (EC) | SIGNED | 4 | LCCAP2A3 | - ACCESS REGISTER 3 |
| 240 | (F0) | SIGNED | 4 | LCCAP2A4 | - ACCESS REGISTER 4 |
| 244 | (F4) | SIGNED | 4 | LCCAP2A5 | - ACCESS REGISTER 5 |
| 248 | (F8) | SIGNED | 4 | LCCAP2A6 | - ACCESS REGISTER 6 |
| 252 | (FC) | SIGNED | 4 | LCCAP2A7 | - ACCESS REGISTER 7 |
| 256 | (100) | SIGNED | 4 | LCCAP2A8 | - ACCESS REGISTER 8 |
| 260 | (104) | SIGNED | 4 | LCCAP2A9 | - ACCESS REGISTER 9 |
| 264 | (108) | SIGNED | 4 | LCCAP2AA | - ACCESS REGISTER 10 |
| 268 | (10C) | SIGNED | 4 | LCCAP2AB | - ACCESS REGISTER 11 |
| 272 | (110) | SIGNED | 4 | LCCAP2AC | - ACCESS REGISTER 12 |
| 276 | (114) | SIGNED | 4 | LCCAP2AD | - ACCESS REGISTER 13 |
| 280 | (118) | SIGNED | 4 | LCCAP2AE | - ACCESS REGISTER 14 |
| 284 | (11C) | SIGNED | 4 | LCCAP2AF | - ACCESS REGISTER 15 |
| 288 | (120) | SIGNED | 4 | LCCARSGR (16) | - RESTART FLIH REGISTER SAVE AREA |
| 352 | (160) | ADDRESS | 4 | LCCADSA2 | - REAL ADDRESS OF THE DATA SPACE ASTE CAUSING THE FAULT. |
| 356 | (164) | BITSTRING | 64 | LCCAPCR2 (0) | - PROGRAM FLIH MAINLINE CONTROL REGISTER SAVEAREA 2 |
| 356 | (164) | SIGNED | 4 | LCCAP2C0 | - CONTROL REGISTER 0 |
| 360 | (168) | SIGNED | 4 | LCCAP2C1 | - CONTROL REGISTER 1 |
| 364 | (16C) | SIGNED | 4 | LCCAP2C2 | - DUCT ORIGIN ADDRESS (CR2) |
| 368 | (170) | CHARACTER | 8 | LCCAPXM2 (0) | - PROGRAM FLIH CROSS MEMORY CONTROL REGISTER SAVEAREA 2 - MUST BE ON DOUBLE WORD BOUNDARY |
| 368 | (170) | SIGNED | 4 | LCCAP2C3 (0) | - CONTROL REGISTER 3 |
| 368 | (170) | SIGNED | 2 | LCCAPX2K | - PROGRAM KEY MASK |
| 370 | (172) | SIGNED | 2 | LCCAPX2S | - SASN |
| 372 | (174) | SIGNED | 4 | LCCAP2C4 (0) | - CONTROL REGISTER 4 |
| 372 | (174) | SIGNED | 2 | LCCAPX2A | - AX |
| 374 | (176) | SIGNED | 2 | LCCAPX2P | - PASN |
| 376 | (178) | SIGNED | 4 | LCCAP2C5 | - ASTE REAL ADDRESS (CR5) |
| 380 | (17C) | SIGNED | 4 | LCCAP2C6 | - CONTROL REGISTER 6 |
| 384 | (180) | SIGNED | 4 | LCCAP2C7 | - CONTROL REGISTER 7 |
| 388 | (184) | SIGNED | 4 | LCCAP2C8 (0) | - CONTROL REGISTER 8 |
| 388 | (184) | SIGNED | 2 | LCCAPEX2 | - EAX VALUE (LH CR8) |
| 390 | (186) | SIGNED | 2 | | - SECOND HALF OF CR8 |
| 392 | (188) | SIGNED | 4 | LCCAP2C9 | - CONTROL REGISTER 9 |
| 396 | (18C) | SIGNED | 4 | LCCAP2CA | - CONTROL REGISTER 10 |
| 400 | (190) | SIGNED | 4 | LCCAP2CB | - CONTROL REGISTER 11 |
| 404 | (194) | SIGNED | 4 | LCCAP2CC | - CONTROL REGISTER 12 |
| 408 | (198) | SIGNED | 4 | LCCAP2CD | - CONTROL REGISTER 13 |
| 412 | (19C) | SIGNED | 4 | LCCAP2CE | - CONTROL REGISTER 14 |
| 416 | (1A0) | SIGNED | 4 | LCCAP2CF | - PROGRAM FLIH MAINLINE LINKAGE STACK ADDRESS (CR15) |
| 420 | (1A4) | BITSTRING | 52 | LCCAR1A4 | - RESERVED |
| 472 | (1D8) | BITSTRING | 8 | LCCAPSW3 | - PROGRAM FLIH PSW SAVE AREA (MDC346) |
| 480 | (1E0) | SIGNED | 4 | LCCAINGR (8) | - INTERSECT REGISTER SAVE AREA (MDC325) |
| 512 | (200) | SIGNED | 2 | LCCABBCT | - COUNT OF THE NUMBER OF TIMES BIND BREAK HAS ENABLED |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|--|-----|---|--|
| Dec | Hex | | | | |
| 514 | (202) | SIGNED | 2 | LCCAWFCT | - Bind Break Window Function Count - Incremented by code which opens an EMS window after it has completed its function |
| 516 | (204) | SIGNED ...1 | 4 | LCCAMCR0 LCCAMPEN | - MACHINE CHECK FLIH CR0 SAVE AREA (MDC312) "X'10" - IF 0, PSA PROTECT DISABLED. IF 1, PSA PROTECT ENABLED. BIT IS IN HIGH-ORDER BYTE OF LCCAMCR0. (MDC315) |
| 520 | (208) | BITSTRING | 4 | LCCAIHRC (0) | - GENERAL FLIH RECURSION FLAGS |
| 520 | (208) | BITSTRING 1... .... .1.. | 1 | LCCAIHR1 LCCAXRC1 LCCAXRC2 | - FIRST BYTE OF LCCAIHRC "X'80" - EXTERNAL FLIH RECURSION BIT 1 "X'40" - EXTERNAL FLIH RECURSION BIT 2 |
| 521 | (209) | BITSTRING | 1 | LCCAIHR2 | - SECOND BYTE OF LCCAIHRC |
| 522 | (20A) | BITSTRING | 1 | LCCAIHR3 | - THIRD BYTE OF LCCAIHRC |
| 523 | (20B) | BITSTRING | 1 | LCCAIHR4 | - FOURTH BYTE OF LCCAIHRC |
| 524 | (20C) | BITSTRING | 4 | LCCASPIN (0) | - PROCESSOR IS SPINNING INDICATORS |
| 524 | (20C) | BITSTRING 1... .... .1.. .... ..1. .... ...1 | 1 | LCCASPN1 LCCASIGS LCCAERIS LCCALOCK LCCATSPN | - FIRST BYTE OF LCCASPIN "X'80" - IEAVSIGP SPIN BIT "X'40" - IEAVERI SPIN BIT "X'20" - LOCK MANAGER SPIN BIT "X'10" - SIMULATES SPIN FOR TIMER SUPERVISOR AT VARY TIME |
| | | 1... | | LCCARSTR | "X'08" - USED BY A PROGRAM SPINNING FOR THE RESTART RESOURCE MDC035 |
| | |1. | | LCCAIINT | "X'02" - INTERSECT FUNCTION SPIN BIT (MDC308) |
| | |1 | | LCCAEXSN | "X'01" - SPIN BIT FOR EXCESSIVE SPIN NOTIFICATION ROUTINE IEEVEXSN (MDC330) |
| 525 | (20D) | BITSTRING 1... .... .1.. .... ..1. .... ...1 1... .... ..1. .... ..1. | 1 | LCCASPN2 LCCAMSF LCCACHAP LCCACPUR LCCASTAS LCCAESPN LCCASTST LCCASXLS | - SECOND BYTE OF LCCASPIN "X'80" - MSSFCALL SVC SPIN CONDITION. "X'40" - ASCBCHAP SPIN BIT "X'20" - TIMER SPIN BIT "X'10" - STATUS SPIN BIT "X'08" - IEAVESPN SPIN BIT "X'04" - CPU/VF STOP/START spin bit IEEVCVSR "X'02" - XLS spin bit |
| 526 | (20E) | BITSTRING | 1 | LCCASPN3 | - THIRD BYTE OF LCCASPIN |
| 527 | (20F) | BITSTRING | 1 | LCCASPN4 | - FOURTH BYTE OF LCCASPIN |
| 528 | (210) | BITSTRING | 8 | (0) | - OWNERSHIP: SUPERVISOR SERIALIZATION: NONE |
| 528 | (210) | SIGNED | 4 | LCCATODH | - STCK WORK AREA - HIGH ORDER WORD |
| 532 | (214) | SIGNED | 4 | LCCATODL | - STCK WORK AREA - LOW ORDER WORD |
| 536 | (218) | ADDRESS | 4 | LCCACPUS | - POINTER TO CPU WORK/SAVE AREA VECTOR TABLE |
| 540 | (21C) | BITSTRING | 1 | LCCADSF1 | - DISPATCHER STATUS INDICATOR BYTE 1 SPECIAL EXIT FLAGS |
| | | 1... .... .1.. .... ..1. .... ...1 | | LCCAACR LCCAVCPU LCCAETSC LCCATIMR | "X'80" - ACR IN PROGRESS "X'40" - VARY CPU IN PROGRESS "X'20" - TOD SYNC CHECKS SHOULD BE ENABLED "X'10" - CPU'S TOD CLOCK IS TO BE OR IS BEING SYNCHRONIZED MDC011 |
| | | 1... | | LCCATSMC | "X'08" - TOD SYNC CHECK THRESHOLD HAS BEEN EXCEEDED |
| | |1.. | | LCCASVC6 | "X'04" - Dispatcher entry DSSRBRTN was spinning for the global intersect. |
| | |1. | | LCCATCT2 | "X'02" - Dispatcher entry IEAVDSTC was spinning for the global intersect. |
| 541 | (21D) | BITSTRING | 1 | LCCADSF2 | - DISPATCHER STATUS INDICATOR BYTE 2 SPECIAL EXIT FLAGS |
| | | 1... .... ..1. .... ...1 1... .... ..1.. | | LCCASRBM LCCASSRB LCCAEUTS LCCAEUTR LCCATVS | "X'80" - SRB MODE INDICATOR "X'20" - DISPATCHER SSRB PATH FOOTPRINT "X'10" - EUTSAVE SUBROUTINE FOOTPRINT "X'08" - EUTREST SUBROUTINE FOOTPRINT "X'04" - Dispatcher footprint for XES Schedule List Transition Notification |
| | |1. .... ...1 | | LCCADS7E LCCATVS2 | "X'02" - Dispatcher footprint for entry from external or I/O FLIHs "X'01" - Dispatcher footprint for iQDIO notification. |
| 542 | (21E) | BITSTRING | 1 | LCCAPSMK | - STORE AREA FOR FLIH'S STOSM INSTRUCTION |

LCCA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|--------------|--|
| Dec | Hex | | | | |
| 543 | (21F) | BITSTRING | 1 | LCCASCFL | - Supervisor Control flag byte. Current processor's field serialized via disablement. |
| | | 1... | | LCCACRYP | "X'80" - THE ENCRYPTION FEATURE IS ENABLED ON THIS PROCESSOR (SET BY IEAMCPUF SERVICE). |
| | | .1... | | LCCAHSCS | "X'40" - HPPI external interrupts are enabled on this processor (set by IEAMCPUF service). |
| | | ..1. | | LCCAPASS | "X'20" - Pass ABEND to interrupted unit of work indicator. |
| | | ...1 | | LCCATVSE | "X'10" - External FLIH footprint for XES processing in progress. |
| | | 1... | | LCCAAOLS | "X'08" Set when PSAAOLD was refreshed and IEAVELCR needs to record the old value in the VRA. The old value is saved in LCCAAOLD. |
| | |1.. | | LCCATOLS | "X'04" Set when PSATOLD was refreshed and IEAVELCR needs to record the old value in the VRA. The old value is saved in LCCATOLD. |
| | |1. | | LCCATVS3 | "X'02" - External FLIH footprint for iQDIO processing in progress. |
| 544 | (220) | BITSTRING | 32 | LCCADS0W (0) | - DISPATCHER CPU RELATED WORK AREA |
| 544 | (220) | ADDRESS | 4 | LCCAPWEB | - Dispatcher savearea for previous WEB on current WUQ. SERIALIZATION: Dispatcher Active OWNERSHIP: Supervisor Control |
| 548 | (224) | SIGNED | 4 | LCCADBCT | - DISPATCHER SAVEAREA FOR INTERNAL ASCB COUNTER. INITIALIZED TO SVTDSBCT AND DECREMENTED BY ONE FOR EACH ASCB SEARCHED. |
| | | 1... | | LCCARSWS | "X'80" - Turned on whenever a the dispatcher is entered as a result of a successful Transfer request. Turned off by the dispatcher when a successful work search is completed. |
| 552 | (228) | ADDRESS | 4 | LCCADSV1 | - DISPATCHER SAVEAREA |
| 556 | (22C) | ADDRESS | 4 | LCCADSV2 | - DISPATCHER SAVEAREA |
| 560 | (230) | ADDRESS | 4 | LCCADSV3 | - DISPATCHER SAVEAREA |
| 564 | (234) | ADDRESS | 4 | LCCADSV4 | - DISPATCHER SAVEAREA |
| 568 | (238) | ADDRESS | 4 | LCCADSV5 | - DISPATCHER SAVEAREA |
| 572 | (23C) | ADDRESS | 4 | LCCADSV6 | - DISPATCHER SAVEAREA |
| 576 | (240) | ADDRESS | 4 | LCCAEE1R | - EXTERNAL FLIH MAINLINE RETRY ADDRESS |
| 580 | (244) | ADDRESS | 4 | LCCAEE2R | - EXTERNAL FLIH 1ST RECURSION RETRY ADDRESS |
| 584 | (248) | ADDRESS | 4 | LCCAEE3R | - EXTERNAL FLIH 2ND RECURSION RETRY ADDRESS |
| 588 | (24C) | BITSTRING | 1 | LCCAPTR1 | - PROGRAM FLIH RECURSION TEA AR NUMBER SAVEAREA 1 |
| 589 | (24D) | BITSTRING | 1 | LCCAPTR2 | - PROGRAM FLIH MAINLINE TEA AR NUMBER SAVEAREA 2 |
| 590 | (24E) | BITSTRING | 1 | LCCAPTR3 | - PROGRAM FLIH RECURSION TEA MC AR NUMBER SAVEAREA 3 |
| 591 | (24F) | BITSTRING | 1 | LCCAPPR2 | - MAINLINE PER STORAGE ALTERATION AR NUMBER |
| 592 | (250) | SIGNED | 4 | LCCATCR0 | - SAVE AREA FOR CONTROL REGISTER 0 FOR TIMER ROUTINES (MDC322) |
| 596 | (254) | SIGNED | 4 | LCCAWTD | - AWM wait dispatch count |
| 600 | (258) | SIGNED | 4 | LCCAWSD | - Short wait dispatch count |
| 604 | (25C) | SIGNED | 4 | LCCAWSU | - Unproductive short wait count |
| 608 | (260) | SIGNED | 4 | LCCAWS | - Short wait time slice count |
| 612 | (264) | BITSTRING | 1 | LCCASTCT | - The count of sequential transfers on this processor. |
| 613 | (265) | BITSTRING | 3 | LCCAR265 | - RESERVED |
| 616 | (268) | DBL WORD | 8 | (0) | - ALIGN LCCAWTIM TO DOUBLE WORD |
| 616 | (268) | BITSTRING | 8 | LCCAWTIM | - ACCUMULATED CPU WAIT TIME |
| 624 | (270) | BITSTRING | 28 | LCCAR270 | - RESERVED |
| 652 | (28C) | ADDRESS | 4 | LCCALCCX (0) | - Virtual address of LCCX |
| 652 | (28C) | ADDRESS | 4 | LCCAFPWA | - Virtual address of FPWA |
| 656 | (290) | ADDRESS | 4 | LCCALCXR (0) | - Real address of LCCX |
| 656 | (290) | ADDRESS | 4 | LCCAFPWR | - Real address of FPWA |
| 660 | (294) | ADDRESS | 4 | LCCAESAV | - Virtual address of area pointed to by FLCESAA. Set during IPL and bringing a processor online. Never reset. (Pre-ESAME only) Ownership: Supervisor Control |
| 664 | (298) | ADDRESS | 4 | LCCAAOLD | If LCCAAOLS = 1, PSAAOLD was refreshed and the original value of PSAAOLD is saved in this field, so it can be recorded in the VRA. |

| Offsets | | | | | |
|---------|-------|---|-----|--|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 668 | (29C) | ADDRESS | 4 | LCCATOLD | If LCCATOLS = 1, PSAAOLD was refreshed and the original value of PSAAOLD is saved in this field, so it can be recorded in the VRA. |
| 672 | (2A0) | SIGNED | 4 | LCCASRBJ | - SUSPENDED SERVICE REQUEST BLOCK (SRB) JOURNAL WORD USED BY SETLOCK MDC043 |
| 676 | (2A4) | ADDRESS | 4 | LCCADCPU | - VIRTUAL ADDRESS OF LCCA OF FAILING CPU |
| 680 | (2A8) | ADDRESS | 4 | LCCARCPU | - VIRTUAL ADDRESS OF LCCA OF RECOVERING CPU |
| 684 | (2AC) | SIGNED | 4 | LCCACRLC | - ACR SAVE AREA FOR HIGHEST LOCK HELD INDICATOR |
| 688 | (2B0) | SIGNED | 4 | LCCALCR0 | - SAVE AREA FOR CONTROL REGISTER 0 WHEN OPENING A WINDOW |
| 692 | (2B4) | BITSTRING 1... .... .1.. .... .... ...1 | 1 | LCCACRFL LCCACRTM LCCACLMS LCCAVARY | - ACR FLAGS "X'80" - RTM ENTRY BIT "X'40" - PROCESS SUSPENDED "X'01" - TELLS ACR THAT VARY IS IN PROGRESS MDC038 |
| 693 | (2B5) | BITSTRING 1... .... .1.. .... ..1. .... ...1 1... .... .1.. .... ..1. .... ...1 | 1 | LCCACREX LCCACREF LCCACRRM LCCACRLE LCCACRRT LCCACRIN LCCACRLM LCCACRDP LCCACRST | - ACR ENTRY AND EXIT FLAGS "X'80" - EXTERNAL ROUTINE "X'40" - FINAL EXIT "X'20" - LOCK MANAGER EXIT "X'10" - FRR EXIT "X'08" - ENTRY TYPE = ACR "X'04" - ENTRY TYPE = ACRLM "X'02" - ENTRY TYPE = ACRDISP "X'01" - SYSTERM TERMINATION EXIT FLAG MDC037 |
| 694 | (2B6) | BITSTRING ...1 | 1 | LCCALKFG LCCALKRD | - LOCK FLAG BYTE MDC005 "X'10" - THIS IS A LOCK MANAGER RELEASE DISABLED REQUEST MDC047 |
| 695 | (2B7) | BITSTRING | 1 | | - RESERVED |
| 696 | (2B8) | SIGNED | 4 | LCCASLEB (0) | - SPIN LOOP EXEMPTION BITS |
| 696 | (2B8) | BITSTRING 1... .... .1.. .... ..1. .... ...1 1... .... .1.. .... ..1. .... ...1 | 1 | LCCASLE1 LCCASTCP LCCARSTP LCCAVTOD LCCAESMR LCCAXMFA LCCACVSR LCCABRCH LCCABWTO | - FLAG BYTE OWNERSHIP: RECONFIG SERIALIZATION: CS "X'80" - BLWSPIN IN CONTROL. "X'40" - LOADWAIT/RESTART PROCESSING IS PLACING THIS PROCESSOR INTO A RESTARTABLE WAIT STATE. "X'20" - IEATVTOD IN CONTROL. "X'10" - IEATESMR IN CONTROL. "X'08" - IGFPXMFA HAS STOPPED THIS CPU. "X'04" - IEEVCVSR IN CONTROL. "X'02" - ISNBRNCH IN CONTROL. "X'01" - IEAVBWTO IN CONTROL. |
| 697 | (2B9) | BITSTRING 1... .... ..1. | 1 | LCCASLE2 LCCAESC2 LCCAXLS | - FLAG BYTE 2 "X'80" - IEATESC2 or IEATTFDH in control. OWNERSHIP: RECONFIG. SERIALIZATION: CS. "X'40" - XLS is in control. Ownership: XES. Serialization: Disablement. |
| 698 | (2BA) | BITSTRING | 2 | | - RESERVED |
| 700 | (2BC) | ADDRESS | 4 | LCCASLIP | - POINTER TO SLIP/PER WORK AREA (MDC316) |
| 704 | (2C0) | DBL WORD | 8 | (0) | - ALIGN LCCALWTM TO DOUBLE WORD MDC001 |
| 704 | (2C0) | BITSTRING | 8 | LCCALWTM | - VALUE OF LCCAWTIM AT THE END OF A MEASUREMENT INTERVAL MDC001 |
| 712 | (2C8) | ADDRESS | 4 | LCCASSA2 | - REAL ADDRESS OF THE SUBSPACE ASTE CAUSING FAULT OWNERSHIP: SUPERVISOR CONTROL SERIALIZATION: DISABLEMENT |
| 716 | (2CC) | ADDRESS | 4 | LCCASSA5 | - REAL ADDRESS OF THE SUBSPACE ASTE CAUSING RECURSIVE FAULT. OWNERSHIP: SUPERVISOR CONTROL SERIALIZATION: DISABLEMENT |
| 720 | (2D0) | DBL WORD | 8 | (0) | - ALIGN LCCASRBF TO DOUBLE WORD MDC009 |
| 720 | (2D0) | CHARACTER | 8 | LCCASRBF (0) | - SRB FIELDS MDC009 |
| 720 | (2D0) | SIGNED | 2 | LCCASAFN | - CPU AFFINITY IF IN SRB MODE MDC003 |
| 722 | (2D2) | BITSTRING | 6 | LCCAPGTA | - ASID/TCB IF IN SRB MODE MDC004 |
| 728 | (2D8) | ADDRESS | 4 | LCCAORMT | - OLD SRB RMTR VALUE SERIALIZATION: DISABLEMENT OWNERSHIP: SUPERVISOR CONTROL |
| | | 1... .... .1.. | | LCCASSTD LCCASSTA | "X'80" - SRB SUSPEND WITH TOKEN DISABLED BIT "X'40" - SRB SUSPEND WITH TOKEN DISABLED BECAUSE SRB WAS ABENDED BY PURGEDQ PROCESSING. |

LCCA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|--------------|--|
| Dec | Hex | | | | |
| | | ..1. | | LCCASSTE | "X'20'" - SRB SUSPEND WITH TOKEN DISABLED BECAUSE SRB IS REALLY A SUSPEND EXIT. |
| 732 | (2DC) | BITSTRING | 4 | LCCAR2DC | - RESERVED |
| 736 | (2E0) | ADDRESS | 4 | LCCAIOWA | - ADDRESS OF IOS WORKAREA (MDCXXX) |
| 740 | (2E4) | SIGNED | 4 | LCCAIOR1 | - RESERVED FOR IOS (MDCXXX) |
| 744 | (2E8) | SIGNED | 4 | LCCAIOR2 | - RESERVED FOR IOS (MDCXXX) |
| 748 | (2EC) | SIGNED | 4 | LCCAIOR3 | - RESERVED FOR IOS (MDCXXX) |
| 752 | (2F0) | SIGNED | 4 | LCCAR2F0 | - RESERVED |
| 756 | (2F4) | BITSTRING | 64 | LCCAPCR1 (0) | - PROGRAM FLIH RECURSION CONTROL REGISTER SAVEAREA 1 |
| 756 | (2F4) | SIGNED | 4 | LCCAP1C0 | - CONTROL REGISTER 0 |
| 760 | (2F8) | SIGNED | 4 | LCCAP1C1 | - CONTROL REGISTER 1 |
| 764 | (2FC) | SIGNED | 4 | LCCAP1C2 | - DUCT ORIGIN ADDRESS (CR2) |
| 768 | (300) | BITSTRING | 8 | LCCAPXM1 (0) | - PROGRAM FLIH CROSS MEMORY CONTROL REGISTER SAVEAREA 1 - MUST BE ON A DOUBLE WORD BOUNDARY. |
| 768 | (300) | SIGNED | 4 | LCCAP1C3 (0) | - CONTROL REGISTER 3 |
| 768 | (300) | SIGNED | 2 | LCCAPX1K | - PROGRAM KEY MASK |
| 770 | (302) | SIGNED | 2 | LCCAPX1S | - SASN |
| 772 | (304) | SIGNED | 4 | LCCAP1C4 (0) | - CONTROL REGISTER 4 |
| 772 | (304) | SIGNED | 2 | LCCAPX1A | - AX |
| 774 | (306) | SIGNED | 2 | LCCAPX1P | - PASN |
| 776 | (308) | SIGNED | 4 | LCCAP1C5 | - ASTE REAL ADDRESS (CR5) |
| 780 | (30C) | SIGNED | 4 | LCCAP1C6 | - CONTROL REGISTER 6 |
| 784 | (310) | SIGNED | 4 | LCCAP1C7 | - CONTROL REGISTER 7 |
| 788 | (314) | SIGNED | 4 | LCCAP1C8 (0) | - CONTROL REGISTER 8 |
| 788 | (314) | SIGNED | 2 | LCCAPEX1 | - EAX VALUE (LH CR8) |
| 790 | (316) | SIGNED | 2 | | - SECOND HALF OF CR8 |
| 792 | (318) | SIGNED | 4 | LCCAP1C9 | - CONTROL REGISTER 9 |
| 796 | (31C) | SIGNED | 4 | LCCAP1CA | - CONTROL REGISTER 10 |
| 800 | (320) | SIGNED | 4 | LCCAP1CB | - CONTROL REGISTER 11 |
| 804 | (324) | SIGNED | 4 | LCCAP1CC | - CONTROL REGISTER 12 |
| 808 | (328) | SIGNED | 4 | LCCAP1CD | - CONTROL REGISTER 13 |
| 812 | (32C) | SIGNED | 4 | LCCAP1CE | - CONTROL REGISTER 14 |
| 816 | (330) | SIGNED | 4 | LCCAP1CF | - PROGRAM FLIH RECURSION LINKAGE STACK ADDRESS SAVEAREA 1 (CR15) |
| 820 | (334) | BITSTRING | 16 | LCCAWDT | - WEB Distribution Table. 16 one-byte elements. INITIALIZED BY: IEAVINIT SERIALIZATION: Disablement for current processor's LCCAWDT. OWNERSHIP: Supervisor Control |
| 836 | (344) | ADDRESS | 4 | LCCACWEB | - Address of the current workunit's WEB SERIALIZATION: Disablement. Global Intersect is required to change another processor's LCCACWEB field. OWNERSHIP: Supervisor Control |
| 840 | (348) | ADDRESS | 4 | LCCANWEB | - Address of the next WEB to be dispatched on the current CPU. SERIALIZATION: CS OWNERSHIP: Supervisor Control |
| 844 | (34C) | SIGNED | 2 | LCCAWUQI | - Dispatcher's current index into the WUQ Array (LCCAWUQA), used during Dispatcher Work Search. SERIALIZATION: Dispatcher Active OWNERSHIP: Supervisor Control |
| 846 | (34E) | SIGNED | 2 | LCCAWUQR | - Dispatchers rescan count |
| 848 | (350) | ADDRESS | 4 | LCCAWUQM | - Address of this processor's PWUQ. SERIALIZATION: Global Intersect OWNERSHIP: Supervisor Control |
| 852 | (354) | CHARACTER | 8 | LCCAFWP (0) | Processor Free WEB Pool and count. SERIALIZATION: Disablement for current processor's LCCAFWP OWNERSHIP: Supervisor Control |
| 852 | (354) | SIGNED | 4 | LCCAFWPP | Processor WEB Free Pool Header SERIALIZATION: Disablement for current processor's LCCAFWPP. OWNERSHIP: Supervisor Control |
| 856 | (358) | SIGNED | 4 | LCCAFWPC | Processor WEB Free Pool element count. SERIALIZATION: Disablement for current processor's LCCAFWPC. OWNERSHIP: Supervisor Control |
| 860 | (35C) | BITSTRING | 4 | LCCAR35C | - RESERVED |
| 864 | (360) | SIGNED | 4 | LCCASMQJ | - GLOBAL SERVICE MANAGER QUEUE (GSMQ) AND LOCAL SERVICE MANAGER QUEUE (LSMQ) JOURNAL WORD USED BY DISPATCHER AND SCHEDULE MDC044 |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|---------------|--|
| Dec | Hex | | | | |
| 868 | (364) | SIGNED | 4 | LCCASPLJ | - GLOBAL SYSTEM PRIORITY LIST (GSPL) AND LOCAL SYSTEM PRIORITY LIST (LSPL) JOURNAL WORD USED BY DISPATCHER MDC045 |
| 872 | (368) | SIGNED | 4 | LCCAETP | - UNPRODUCTIVE TASK PREEMPTION COUNT - NUMBER OF TASK TIME SLICE EXPIRATIONS THAT WERE NOT NEEDED (External Fliih Detected) OWNERSHIP: SRM |
| 876 | (36C) | SIGNED | 4 | LCCAETPB | - UNPRODUCTIVE TASK PREEMPTION COUNT BASE - PREVIOUS VALUE OF LCCAETP OWNERSHIP: SRM |
| 880 | (370) | BITSTRING | 12 | LCCAR370 | - RESERVED |
| 892 | (37C) | ADDRESS | 4 | LCCARWQL | - Recovery word for WebQLock address Ownership: Supervisor Control Serialization: Disablement |
| 896 | (380) | SIGNED | 4 | LCCASGPR (16) | - SVC FLIH GENERAL REGISTER SAVE AREA (MDC301) |
| 960 | (3C0) | BITSTRING | 1 | LCCADS0F | - DISPATCHER DIAGNOSTIC EXIT FLAG BYTE |
| | | 1... | | LCCADSE1 | "X'80" - DISPATCHER UNLOCKED TASK DISPATCH DIAGNOSTIC EXIT ROUTED CONTROL |
| | | .1.. | | LCCADSE2 | "X'40" - DISPATCHER LOCKED TASK DISPATCH DIAGNOSTIC EXIT ROUTED CONTROL |
| | | ..1. | | LCCADSE3 | "X'20" - DISPATCHER SRB DISPATCH DIAGNOSTIC EXIT ROUTED CONTROL |
| | | ...1 | | LCCADSE4 | "X'10" - DISPATCHER SSRB DISPATCH DIAGNOSTIC EXIT ROUTED CONTROL |
| | | 1... | | LCCADSE5 | "X'08" - DISPATCHER WAIT TASK DISPATCH DIAGNOSTIC EXIT ROUTED CONTROL |
| 961 | (3C1) | BITSTRING | 1 | LCCAFPFL | - Floating point Flags |
| | | ...1 | | LCCABFP | "X'10" Extended FP status is being saved |
| | |1 | | LCCABFPH | "X'01" BFP hardware is present. This bit is a duplicate of CVTBFPH so that dat-off reference can be made. It is set only at IPL and when a processor is brought online |
| 962 | (3C2) | BITSTRING | 2 | LCCAPER | - PROGRAM EVENT RECORDING CODE (MDC326) |
| 964 | (3C4) | ADDRESS | 4 | LCCAPER | - PER ADDRESS (MDC327) |
| 968 | (3C8) | ADDRESS | 4 | LCCASDUV | - SRB RELATED DUCT VIRTUAL ADDRESS |
| 972 | (3CC) | ADDRESS | 4 | LCCASDUR | - SRB RELATED DUCT REAL ADDRESS |
| 976 | (3D0) | ADDRESS | 4 | LCCAUDUV | - INTERRUPT HANDLER DUCT VIRTUAL ADDRESS |
| 980 | (3D4) | ADDRESS | 4 | LCCAUDUR | - INTERRUPT HANDLER DUCT REAL ADDRESS |
| 984 | (3D8) | ADDRESS | 4 | LCCASCW1 | - SUPERVISOR CONTROL WORK AREA 1 USED BY VARIOUS SUPERVISORY ROUTINES PRESERVED ACROSS CALLS TO IEAVECMS OWNERSHIP: SUPERVISOR CONTROL SERIALIZATION: DISABLEMENT |
| 988 | (3DC) | ADDRESS | 4 | LCCASCW2 | - SUPERVISOR CONTROL WORK AREA 2 USED BY VARIOUS SUPERVISORY ROUTINES PRESERVED ACROSS CALLS TO IEAVECMS OWNERSHIP: SUPERVISOR CONTROL SERIALIZATION: DISABLEMENT |
| 992 | (3E0) | BITSTRING | 8 | LCCASXMR | SVC FLIH CROSS MEMORY CONTROL REGISTER SAVE AREA (MDC338) |
| 1000 | (3E8) | BITSTRING | 72 | LCCALKG1 | - LOCK MANAGER REGISTER SAVE AREA (MDC342) |
| 1072 | (430) | BITSTRING | 64 | LCCALKG2 | - LOCK MANAGER SUSPENSION REGISTER SAVE AREA (MDC342) |
| 1136 | (470) | BITSTRING | 8 | LCCAELKP | - LOCK MANAGER PSW SAVE AREA (MDC342) |
| 1144 | (478) | SIGNED | 4 | LCCASTG1 (18) | - STATUS REGISTER SAVE AREA (MDC338) |
| 1216 | (4C0) | SIGNED | 4 | LCCASCSA (5) | - PCLINK SAVE AREA FOR REGISTERS 8-12 (CALLER'S REGISTERS) (MDC341) |
| 1236 | (4D4) | SIGNED | 4 | LCCASREG (13) | - PCLINK SAVE AREA (MDC341) |
| 1288 | (508) | BITSTRING | 1 | LCCASMSK | - PCLINK SYSTEM MASK (MDC341) |
| 1289 | (509) | BITSTRING | 1 | LCCARSMK | - RESUME/TCTL SYSTEM MASK (MDC340) |
| 1290 | (50A) | BITSTRING | 1 | LCCAPGMM | - PCLINK PROGRAM MASK (MDC341) |
| 1291 | (50B) | BITSTRING | 1 | LCCATCFB | - RESUME/TCTL RECOVERY FOOTPRINT BYTE (MDC346) |
| | | 1... | | LCCATCTL | "X'80" - TCTL IN CONTROL AT ABEND (MDC346) |
| | | .1.. | | LCCATCAC | "X'40" - TCBACTIV AND TCBS3A SET (MDC346) |
| 1292 | (50C) | SIGNED | 4 | LCCARSME (0) | - RESUME REGISTER SAVE AREA FOR REGISTERS 11-4 (MDC338) |
| 1292 | (50C) | SIGNED | 4 | LCCARES1 (7) | - RESUME REGISTER SAVE AREA FOR REG 11 - REG 1 (MDC338) |
| 1320 | (528) | SIGNED | 4 | LCCARES2 (3) | - RESUME REGISTER SAVE AREA FOR REG 2 - REG 4 (MDC338) |

LCCA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|---------------|--|
| Dec | Hex | | | | |
| 1332 | (534) | SIGNED | 4 | LCCASPSW | - SYSTEM MASK SAVE AREA, USED BY MACHINE CHECK HANDLER |
| 1336 | (538) | SIGNED | 4 | LCCASRGS | - RETURN ADDRESS SAVE AREA, USED BY MACHINE CHECK HANDLER |
| 1340 | (53C) | ADDRESS | 4 | LCCAPRMW | - Address of the WEB on whose behalf a priority promotion was initiated. SERIALIATION: Dispatcher Active OWNERSHIP: Supervisor Control |
| 1344 | (540) | ADDRESS | 4 | LCCAPTCB | - ADDRESS OF THE TCB ON WHOSE BEHALF A PRIORITY PROMOTION WAS INITIATED. (MDC347) |
| 1348 | (544) | ADDRESS | 4 | LCCAPRTN | - DISPATCHER RETURN POINT IF NO DISPATCHABLE WORK IS FOUND IN A PROMOTED ADDRESS SPACE. (MDC347) |
| 1352 | (548) | SIGNED | 4 | LCCACDXM (2) | - CALLDISP XMEM SAVE AREA (MDC338) |
| 1360 | (550) | CHARACTER | 8 | LCCASRXM (0) | - CROSS MEMORY SAVE AREA FOR STOP/RESET AND SRB STATUS SAVE/RESTORE/MODIFY ROUTINES. |
| 1360 | (550) | SIGNED | 4 | LCCASRSA | - STOP/RESET IAC SAVE AREA |
| 1364 | (554) | SIGNED | 4 | LCCASRTK | - HOLDS SSARTO TOKEN FOR STOP/RESET |
| 1368 | (558) | SIGNED | 4 | LCCACR8W | - WORK AREA FOR CONTROL REG 8 |
| 1372 | (55C) | BITSTRING | 12 | LCCAIOXM (0) | - IOS CROSS MEMORY SAVE AREA (MDC339) |
| 1372 | (55C) | SIGNED | 4 | LCCAIOSS | - IOS PSW S-BIT REGISTER SAVE AREA (MDC339) |
| 1376 | (560) | SIGNED | 4 | LCCAIOC3 | - IOS CONTROL REGISTER 3 SAVE AREA (MDC339) |
| 1380 | (564) | SIGNED | 4 | LCCAIOC4 | - IOS CONTROL REGISTER 4 SAVE AREA (MDC339) |
| 1384 | (568) | SIGNED | 4 | LCCABBRC | - BIND BREAK COMMUNICATION BUFFER USED BY IEAVEBBR (MDC344) |
| 1388 | (56C) | CHARACTER | 64 | LCCACDSV (0) | - CALLDISP SERVICE ROUTINE REGISTER SAVE AREA FOR REGISTERS 0-15 (MDC344) |
| 1388 | (56C) | SIGNED | 4 | LCCACDS0 | - CALLDISP REGISTER 0 SAVE AREA (MDC344) |
| 1392 | (570) | SIGNED | 4 | LCCACDS1 | - CALLDISP REGISTER 1 SAVE AREA (MDC344) |
| 1396 | (574) | SIGNED | 4 | LCCACDS2 | - CALLDISP REGISTER 2 SAVE AREA (MDC344) |
| 1400 | (578) | SIGNED | 4 | LCCACDS3 | - CALLDISP REGISTER 3 SAVE AREA (MDC344) |
| 1404 | (57C) | SIGNED | 4 | LCCACDS4 | - CALLDISP REGISTER 4 SAVE AREA (MDC344) |
| 1408 | (580) | SIGNED | 4 | LCCACDS5 | - CALLDISP REGISTER 5 SAVE AREA (MDC344) |
| 1412 | (584) | SIGNED | 4 | LCCACDS6 | - CALLDISP REGISTER 6 SAVE AREA (MDC344) |
| 1416 | (588) | SIGNED | 4 | LCCACDS7 | - CALLDISP REGISTER 7 SAVE AREA (MDC344) |
| 1420 | (58C) | SIGNED | 4 | LCCACDS8 | - CALLDISP REGISTER 8 SAVE AREA (MDC344) |
| 1424 | (590) | SIGNED | 4 | LCCACDS9 | - CALLDISP REGISTER 9 SAVE AREA (MDC344) |
| 1428 | (594) | SIGNED | 4 | LCCACDSA | - CALLDISP REGISTER 10 SAVE AREA (MDC344) |
| 1432 | (598) | SIGNED | 4 | LCCACDSB | - CALLDISP REGISTER 11 SAVE AREA (MDC344) |
| 1436 | (59C) | SIGNED | 4 | LCCACDSC | - CALLDISP REGISTER 12 SAVE AREA (MDC344) |
| 1440 | (5A0) | SIGNED | 4 | LCCACDSD | - CALLDISP REGISTER 13 SAVE AREA (MDC344) |
| 1444 | (5A4) | SIGNED | 4 | LCCACDSE | - CALLDISP REGISTER 14 SAVE AREA (MDC344) |
| 1448 | (5A8) | SIGNED | 4 | LCCACDSF | - CALLDISP REGISTER 15 SAVE AREA (MDC344) |
| 1452 | (5AC) | SIGNED | 4 | LCCASLSA (16) | - LCCA SINGLE LEVEL SAVE AREA USED BY MACHINE CHECK HANDLER (MDC344) |
| 1516 | (5EC) | ADDRESS | 4 | LCCARWEB | - Address of WEB expected to be locked by this CPU on entry to global recovery. |
| | | 1... | | LCCARWLK | "X'80" Indicator that WEB in LCCARWEB is not validly locked but the AWQ lock for the WEB can be held by this CPU |
| 1520 | (5F0) | SIGNED | 4 | LCCAPOST (10) | - POST SAVE AREA FOR SRB POOL MANAGER |
| 1560 | (618) | ADDRESS | 4 | LCCAALOV | - SRB RELATED AL VIRTUAL ADDRESS OR ZERO (ZERO MEANS THE NULL OR BASIC ACCESS LIST) |
| 1564 | (61C) | ADDRESS | 4 | LCCAPSB2 | - ASCB ADDRESS WHERE PAGE/SEGMENT FAULT OCCURRED |
| 1568 | (620) | ADDRESS | 4 | LCCALSSD | - LSSD ADDRESS FOR THE PROCESSOR RELATED SRB LINKAGE STACK |
| 1572 | (624) | ADDRESS | 4 | LCCALSDP | - ADDRESS OF THE FIRST LSED IN THE PROCESSOR RELATED SRB LINKAGE STACK |
| 1576 | (628) | BITSTRING | 8 | LCCAXTIM | - EXTERNAL FLIH TIMER SAVE AREA 1 |
| 1584 | (630) | BITSTRING | 64 | LCCAPAR3 (0) | - PROGRAM FLIH RECURSION MC ACCESS REGISTER SAVEAREA 3 |
| 1584 | (630) | SIGNED | 4 | LCCAP3A0 | - ACCESS REGISTER 0 |
| 1588 | (634) | SIGNED | 4 | LCCAP3A1 | - ACCESS REGISTER 1 |
| 1592 | (638) | SIGNED | 4 | LCCAP3A2 | - ACCESS REGISTER 2 |
| 1596 | (63C) | SIGNED | 4 | LCCAP3A3 | - ACCESS REGISTER 3 |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|---------------|--|
| Dec | Hex | | | | |
| 1600 | (640) | SIGNED | 4 | LCCAP3A4 | - ACCESS REGISTER 4 |
| 1604 | (644) | SIGNED | 4 | LCCAP3A5 | - ACCESS REGISTER 5 |
| 1608 | (648) | SIGNED | 4 | LCCAP3A6 | - ACCESS REGISTER 6 |
| 1612 | (64C) | SIGNED | 4 | LCCAP3A7 | - ACCESS REGISTER 7 |
| 1616 | (650) | SIGNED | 4 | LCCAP3A8 | - ACCESS REGISTER 8 |
| 1620 | (654) | SIGNED | 4 | LCCAP3A9 | - ACCESS REGISTER 9 |
| 1624 | (658) | SIGNED | 4 | LCCAP3AA | - ACCESS REGISTER 10 |
| 1628 | (65C) | SIGNED | 4 | LCCAP3AB | - ACCESS REGISTER 11 |
| 1632 | (660) | SIGNED | 4 | LCCAP3AC | - ACCESS REGISTER 12 |
| 1636 | (664) | SIGNED | 4 | LCCAP3AD | - ACCESS REGISTER 13 |
| 1640 | (668) | SIGNED | 4 | LCCAP3AE | - ACCESS REGISTER 14 |
| 1644 | (66C) | SIGNED | 4 | LCCAP3AF | - ACCESS REGISTER 15 |
| 1648 | (670) | SIGNED | 4 | LCCAEMS0 (16) | - IEAVWUQA REGISTER SAVE AREA |
| 1712 | (6B0) | DBL WORD | 8 | LCCAPPS1 | - PROGRAM FLIH RECURSION PSW SAVE AREA 1 |
| 1720 | (6B8) | BITSTRING | 4 | LCCAPIC1 | - PROGRAM FLIH RECURSION ILC AND INTERRUPT CODE SAVE AREA 1 |
| 1724 | (6BC) | BITSTRING | 4 | LCCAPTE1 | - PROGRAM FLIH RECURSION TRANSLATION EXCEPTION ADDRESS SAVE AREA 1 |
| 1728 | (6C0) | SIGNED | 4 | LCCAPGR4 (16) | - PROGRAM FLIH REGISTER SAVE AREA 4 |
| 1792 | (700) | SIGNED | 4 | LCCAPSLI (18) | - PROGRAM FLIH SAVE AREA TO PASS TO SLIH ROUTINES |
| 1864 | (748) | ADDRESS | 4 | LCCALSHD | - LSSD ADDRESS FOR THE INTERRUPT HANDLER LINKAGE STACK |
| 1868 | (74C) | ADDRESS | 4 | LCCALSHP | - ADDRESS OF THE FIRST LSED IN THE INTERRUPT HANDLER LINKAGE STACK |
| 1872 | (750) | DBL WORD | 8 | LCCAPPS3 | - PROGRAM FLIH RECURSION PSW SAVE AREA 3 |
| 1880 | (758) | BITSTRING | 4 | LCCAPIC3 | - PROGRAM FLIH RECURSION ILC AND INTERRUPT CODE SAVE AREA 3 |
| 1884 | (75C) | BITSTRING | 4 | LCCAPTE3 | - PROGRAM FLIH RECURSION TRANSLATION EXCEPTION ADDRESS SAVE AREA 3 |
| 1888 | (760) | BITSTRING | 64 | LCCAPAR1 (0) | - PROGRAM FLIH RECURSION ACCESS REGISTER SAVEAREA 1 |
| 1888 | (760) | SIGNED | 4 | LCCAP1A0 | - ACCESS REGISTER 0 |
| 1892 | (764) | SIGNED | 4 | LCCAP1A1 | - ACCESS REGISTER 1 |
| 1896 | (768) | SIGNED | 4 | LCCAP1A2 | - ACCESS REGISTER 2 |
| 1900 | (76C) | SIGNED | 4 | LCCAP1A3 | - ACCESS REGISTER 3 |
| 1904 | (770) | SIGNED | 4 | LCCAP1A4 | - ACCESS REGISTER 4 |
| 1908 | (774) | SIGNED | 4 | LCCAP1A5 | - ACCESS REGISTER 5 |
| 1912 | (778) | SIGNED | 4 | LCCAP1A6 | - ACCESS REGISTER 6 |
| 1916 | (77C) | SIGNED | 4 | LCCAP1A7 | - ACCESS REGISTER 7 |
| 1920 | (780) | SIGNED | 4 | LCCAP1A8 | - ACCESS REGISTER 8 |
| 1924 | (784) | SIGNED | 4 | LCCAP1A9 | - ACCESS REGISTER 9 |
| 1928 | (788) | SIGNED | 4 | LCCAP1AA | - ACCESS REGISTER 10 |
| 1932 | (78C) | SIGNED | 4 | LCCAP1AB | - ACCESS REGISTER 11 |
| 1936 | (790) | SIGNED | 4 | LCCAP1AC | - ACCESS REGISTER 12 |
| 1940 | (794) | SIGNED | 4 | LCCAP1AD | - ACCESS REGISTER 13 |
| 1944 | (798) | SIGNED | 4 | LCCAP1AE | - ACCESS REGISTER 14 |
| 1948 | (79C) | SIGNED | 4 | LCCAP1AF | - ACCESS REGISTER 15 |
| 1952 | (7A0) | BITSTRING | 64 | LCCAPAR4 (0) | - PROGRAM FLIH ACCESS REGISTER SAVEAREA 4 |
| 1952 | (7A0) | SIGNED | 4 | LCCAP4A0 | - ACCESS REGISTER 0 |
| 1956 | (7A4) | SIGNED | 4 | LCCAP4A1 | - ACCESS REGISTER 1 |
| 1960 | (7A8) | SIGNED | 4 | LCCAP4A2 | - ACCESS REGISTER 2 |
| 1964 | (7AC) | SIGNED | 4 | LCCAP4A3 | - ACCESS REGISTER 3 |
| 1968 | (7B0) | SIGNED | 4 | LCCAP4A4 | - ACCESS REGISTER 4 |
| 1972 | (7B4) | SIGNED | 4 | LCCAP4A5 | - ACCESS REGISTER 5 |
| 1976 | (7B8) | SIGNED | 4 | LCCAP4A6 | - ACCESS REGISTER 6 |
| 1980 | (7BC) | SIGNED | 4 | LCCAP4A7 | - ACCESS REGISTER 7 |
| 1984 | (7C0) | SIGNED | 4 | LCCAP4A8 | - ACCESS REGISTER 8 |
| 1988 | (7C4) | SIGNED | 4 | LCCAP4A9 | - ACCESS REGISTER 9 |
| 1992 | (7C8) | SIGNED | 4 | LCCAP4AA | - ACCESS REGISTER 10 |
| 1996 | (7CC) | SIGNED | 4 | LCCAP4AB | - ACCESS REGISTER 11 |
| 2000 | (7D0) | SIGNED | 4 | LCCAP4AC | - ACCESS REGISTER 12 |
| 2004 | (7D4) | SIGNED | 4 | LCCAP4AD | - ACCESS REGISTER 13 |
| 2008 | (7D8) | SIGNED | 4 | LCCAP4AE | - ACCESS REGISTER 14 |
| 2012 | (7DC) | SIGNED | 4 | LCCAP4AF | - ACCESS REGISTER 15 |

LCCA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|--------------|---|
| Dec | Hex | | | | |
| 2016 | (7E0) | BITSTRING | 64 | LCCARARS (0) | - RESTART FLIH ACCESS REGISTER SAVEAREA |
| 2016 | (7E0) | SIGNED | 4 | LCCARAR0 | - ACCESS REGISTER 0 |
| 2020 | (7E4) | SIGNED | 4 | LCCARAR1 | - ACCESS REGISTER 1 |
| 2024 | (7E8) | SIGNED | 4 | LCCARAR2 | - ACCESS REGISTER 2 |
| 2028 | (7EC) | SIGNED | 4 | LCCARAR3 | - ACCESS REGISTER 3 |
| 2032 | (7F0) | SIGNED | 4 | LCCARAR4 | - ACCESS REGISTER 4 |
| 2036 | (7F4) | SIGNED | 4 | LCCARAR5 | - ACCESS REGISTER 5 |
| 2040 | (7F8) | SIGNED | 4 | LCCARAR6 | - ACCESS REGISTER 6 |
| 2044 | (7FC) | SIGNED | 4 | LCCARAR7 | - ACCESS REGISTER 7 |
| 2048 | (800) | SIGNED | 4 | LCCARAR8 | - ACCESS REGISTER 8 |
| 2052 | (804) | SIGNED | 4 | LCCARAR9 | - ACCESS REGISTER 9 |
| 2056 | (808) | SIGNED | 4 | LCCARARA | - ACCESS REGISTER 10 |
| 2060 | (80C) | SIGNED | 4 | LCCARARB | - ACCESS REGISTER 11 |
| 2064 | (810) | SIGNED | 4 | LCCARARC | - ACCESS REGISTER 12 |
| 2068 | (814) | SIGNED | 4 | LCCARARD | - ACCESS REGISTER 13 |
| 2072 | (818) | SIGNED | 4 | LCCARARE | - ACCESS REGISTER 14 |
| 2076 | (81C) | SIGNED | 4 | LCCARARF | - ACCESS REGISTER 15 |
| 2080 | (820) | SIGNED | 2 | LCCAR820 | - RESERVED |
| 2082 | (822) | SIGNED | 2 | LCCAOILC | - Original ILC. Only valid when LCCAFPPE is on. |
| 2084 | (824) | BITSTRING | 64 | LCCAPCR3 (0) | - PROGRAM FLIH RECURSION MC CONTROL REGISTER SAVEAREA 3 |
| 2084 | (824) | SIGNED | 4 | LCCAP3C0 | - CONTROL REGISTER 0 |
| 2088 | (828) | SIGNED | 4 | LCCAP3C1 | - CONTROL REGISTER 1 |
| 2092 | (82C) | SIGNED | 4 | LCCAP3C2 | - DUCT ORIGIN ADDRESS (CR2) |
| 2096 | (830) | BITSTRING | 8 | LCCAPXM3 (0) | - PROGRAM FLIH CROSS MEMORY CONTROL REGISTER SAVEAREA 3 - MUST BE ON A DOUBLE WORD BOUNDARY. |
| 2096 | (830) | SIGNED | 4 | LCCAP3C3 (0) | - CONTROL REGISTER 3 |
| 2096 | (830) | SIGNED | 2 | LCCAPX3K | - PROGRAM KEY MASK |
| 2098 | (832) | SIGNED | 2 | LCCAPX3S | - SASN |
| 2100 | (834) | SIGNED | 4 | LCCAP3C4 (0) | - CONTROL REGISTER 4 |
| 2100 | (834) | SIGNED | 2 | LCCAPX3A | - AX |
| 2102 | (836) | SIGNED | 2 | LCCAPX3P | - PASN |
| 2104 | (838) | SIGNED | 4 | LCCAP3C5 | - ASTE REAL ADDRESS (CR5) |
| 2108 | (83C) | SIGNED | 4 | LCCAP3C6 | - CONTROL REGISTER 6 |
| 2112 | (840) | SIGNED | 4 | LCCAP3C7 | - CONTROL REGISTER 7 |
| 2116 | (844) | SIGNED | 4 | LCCAP3C8 (0) | - CONTROL REGISTER 8 |
| 2116 | (844) | SIGNED | 2 | LCCAPEX3 | - EAX VALUE (LH CR8) |
| 2118 | (846) | SIGNED | 2 | | - SECOND HALF OF CR8 |
| 2120 | (848) | SIGNED | 4 | LCCAP3C9 | - CONTROL REGISTER 9 |
| 2124 | (84C) | SIGNED | 4 | LCCAP3CA | - CONTROL REGISTER 10 |
| 2128 | (850) | SIGNED | 4 | LCCAP3CB | - CONTROL REGISTER 11 |
| 2132 | (854) | SIGNED | 4 | LCCAP3CC | - CONTROL REGISTER 12 |
| 2136 | (858) | SIGNED | 4 | LCCAP3CD | - CONTROL REGISTER 13 |
| 2140 | (85C) | SIGNED | 4 | LCCAP3CE | - CONTROL REGISTER 14 |
| 2144 | (860) | SIGNED | 4 | LCCAP3CF | - PROGRAM FLIH RECURSION LINKAGE STACK ADDRESS SAVEAREA 3 (CR15) |
| 2148 | (864) | BITSTRING | 64 | LCCAPCR4 (0) | - PROGRAM FLIH CONTROL REGISTER SAVEAREA 4 |
| 2148 | (864) | SIGNED | 4 | LCCAP4C0 | - CONTROL REGISTER 0 |
| 2152 | (868) | SIGNED | 4 | LCCAP4C1 | - CONTROL REGISTER 1 |
| 2156 | (86C) | SIGNED | 4 | LCCAP4C2 | - DUCT ORIGIN ADDRESS (CR2) |
| 2160 | (870) | BITSTRING | 8 | LCCAPXM4 (0) | - PROGRAM FLIH CROSS MEMORY CONTROL REGISTER SAVEAREA 4 - MUST BE ON A DOUBLE WORD BOUNDARY. |
| 2160 | (870) | SIGNED | 4 | LCCAP4C3 (0) | - CONTROL REGISTER 3 |
| 2160 | (870) | SIGNED | 2 | LCCAPX4K | - PROGRAM KEY MASK |
| 2162 | (872) | SIGNED | 2 | LCCAPX4S | - SASN |
| 2164 | (874) | SIGNED | 4 | LCCAP4C4 (0) | - CONTROL REGISTER 4 |
| 2164 | (874) | SIGNED | 2 | LCCAPX4A | - AX |
| 2166 | (876) | SIGNED | 2 | LCCAPX4P | - PASN |
| 2168 | (878) | SIGNED | 4 | LCCAP4C5 | - ASTE REAL ADDRESS (CR5) |
| 2172 | (87C) | SIGNED | 4 | LCCAP4C6 | - CONTROL REGISTER 6 |
| 2176 | (880) | SIGNED | 4 | LCCAP4C7 | - CONTROL REGISTER 7 |
| 2180 | (884) | SIGNED | 4 | LCCAP4C8 (0) | - CONTROL REGISTER 8 |
| 2180 | (884) | SIGNED | 2 | LCCAPEX4 | - EAX VALUE (LH CR8) |
| 2182 | (886) | SIGNED | 2 | | - SECOND HALF OF CR8 |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|---------------|--|
| Dec | Hex | | | | |
| 2184 | (888) | SIGNED | 4 | LCCAP4C9 | - CONTROL REGISTER 9 |
| 2188 | (88C) | SIGNED | 4 | LCCAP4CA | - CONTROL REGISTER 10 |
| 2192 | (890) | SIGNED | 4 | LCCAP4CB | - CONTROL REGISTER 11 |
| 2196 | (894) | SIGNED | 4 | LCCAP4CC | - CONTROL REGISTER 12 |
| 2200 | (898) | SIGNED | 4 | LCCAP4CD | - CONTROL REGISTER 13 |
| 2204 | (89C) | SIGNED | 4 | LCCAP4CE | - CONTROL REGISTER 14 |
| 2208 | (8A0) | SIGNED | 4 | LCCAP4CF | - PROGRAM FLIH RECURSION LINKAGE STACK ADDRESS SAVEAREA 4 (CR15) |
| 2212 | (8A4) | BITSTRING | 64 | LCCARCRS (0) | - RESTART FLIH CONTROL REGISTER SAVEAREA |
| 2212 | (8A4) | SIGNED | 4 | LCCARCR0 | - CONTROL REGISTER 0 |
| 2216 | (8A8) | SIGNED | 4 | LCCARCR1 | - CONTROL REGISTER 1 |
| 2220 | (8AC) | SIGNED | 4 | LCCARCR2 | - DUCT ORIGIN ADDRESS (CR2) |
| 2224 | (8B0) | BITSTRING | 8 | LCCARXMR (0) | - RESTART FLIH CROSS MEMORY CONTROL REGISTER SAVEAREA - MUST BE ON A DOUBLE WORD BOUNDARY. |
| 2224 | (8B0) | SIGNED | 4 | LCCARCR3 (0) | - CONTROL REGISTER 3 |
| 2224 | (8B0) | SIGNED | 2 | LCCARXRK | - PROGRAM KEY MASK |
| 2226 | (8B2) | SIGNED | 2 | LCCARXRS | - SASN |
| 2228 | (8B4) | SIGNED | 4 | LCCARCR4 (0) | - CONTROL REGISTER 4 |
| 2228 | (8B4) | SIGNED | 2 | LCCARXRA | - AX |
| 2230 | (8B6) | SIGNED | 2 | LCCARXRP | - PASN |
| 2232 | (8B8) | SIGNED | 4 | LCCARCR5 | - CONTROL REGISTER 5 |
| 2236 | (8BC) | SIGNED | 4 | LCCARCR6 | - CONTROL REGISTER 6 |
| 2240 | (8C0) | SIGNED | 4 | LCCARCR7 | - CONTROL REGISTER 7 |
| 2244 | (8C4) | SIGNED | 4 | LCCARCR8 (0) | - CONTROL REGISTER 8 |
| 2244 | (8C4) | SIGNED | 2 | LCCAREAX | - EAX VALUE (LH CR8) |
| 2246 | (8C6) | SIGNED | 2 | | - SECOND HALF OF CR8 |
| 2248 | (8C8) | SIGNED | 4 | LCCARCR9 | - CONTROL REGISTER 9 |
| 2252 | (8CC) | SIGNED | 4 | LCCARCRA | - CONTROL REGISTER 10 |
| 2256 | (8D0) | SIGNED | 4 | LCCARCRB | - CONTROL REGISTER 11 |
| 2260 | (8D4) | SIGNED | 4 | LCCARCRC | - CONTROL REGISTER 12 |
| 2264 | (8D8) | SIGNED | 4 | LCCARCRD | - CONTROL REGISTER 13 |
| 2268 | (8DC) | SIGNED | 4 | LCCARCRE | - CONTROL REGISTER 14 |
| 2272 | (8E0) | SIGNED | 4 | LCCARCRF | - LINKAGE STACK ENTRY ADDRESS (CR15) |
| 2276 | (8E4) | SIGNED | 4 | LCCAPGR5 (16) | - PROGRAM FLIH RECURSION REGISTER SAVE AREA 5 |
| 2340 | (924) | SIGNED | 4 | LCCAPSB5 | - ASCB ADDRESS WHERE PAGE/SEGMENT FAULT OCCURRED |
| 2344 | (928) | BITSTRING | 64 | LCCAPAR5 (0) | - PROGRAM FLIH RECURSION ACCESS REGISTER SAVEAREA 5 |
| 2344 | (928) | SIGNED | 4 | LCCAP5A0 | - ACCESS REGISTER 0 |
| 2348 | (92C) | SIGNED | 4 | LCCAP5A1 | - ACCESS REGISTER 1 |
| 2352 | (930) | SIGNED | 4 | LCCAP5A2 | - ACCESS REGISTER 2 |
| 2356 | (934) | SIGNED | 4 | LCCAP5A3 | - ACCESS REGISTER 3 |
| 2360 | (938) | SIGNED | 4 | LCCAP5A4 | - ACCESS REGISTER 4 |
| 2364 | (93C) | SIGNED | 4 | LCCAP5A5 | - ACCESS REGISTER 5 |
| 2368 | (940) | SIGNED | 4 | LCCAP5A6 | - ACCESS REGISTER 6 |
| 2372 | (944) | SIGNED | 4 | LCCAP5A7 | - ACCESS REGISTER 7 |
| 2376 | (948) | SIGNED | 4 | LCCAP5A8 | - ACCESS REGISTER 8 |
| 2380 | (94C) | SIGNED | 4 | LCCAP5A9 | - ACCESS REGISTER 9 |
| 2384 | (950) | SIGNED | 4 | LCCAP5AA | - ACCESS REGISTER 10 |
| 2388 | (954) | SIGNED | 4 | LCCAP5AB | - ACCESS REGISTER 11 |
| 2392 | (958) | SIGNED | 4 | LCCAP5AC | - ACCESS REGISTER 12 |
| 2396 | (95C) | SIGNED | 4 | LCCAP5AD | - ACCESS REGISTER 13 |
| 2400 | (960) | SIGNED | 4 | LCCAP5AE | - ACCESS REGISTER 14 |
| 2404 | (964) | SIGNED | 4 | LCCAP5AF | - ACCESS REGISTER 15 |
| 2408 | (968) | BITSTRING | 1 | LCCAPTR5 | - PROGRAM FLIH RECURSION TEA AR NUMBER SAVEAREA 5 |
| 2409 | (969) | BITSTRING | 1 | LCCAPMFV | - RECURSIVE PAGE FAULT MAINLINE FUNCTION VALUE SAVEAREA |
| 2410 | (96A) | SIGNED | 2 | LCCADIEP | - PASN value set by previous CMSET SET,DIE=YES,... Used by program FLIH to determine whether a SSE program interrupt is valid. |
| 2412 | (96C) | BITSTRING | 64 | LCCAPCR5 (0) | - PROGRAM FLIH RECURSION CONTROL REGISTER SAVEAREA 5 |
| 2412 | (96C) | SIGNED | 4 | LCCAP5C0 | - CONTROL REGISTER 0 |

LCCA Map

| Offsets | | | | | |
|---------|-------|------------|-----|--------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 2416 | (970) | SIGNED | 4 | LCCAP5C1 | - CONTROL REGISTER 1 |
| 2420 | (974) | SIGNED | 4 | LCCAP5C2 | - DUCT ORIGIN ADDRESS (CR2) |
| 2424 | (978) | BITSTRING | 8 | LCCAPXM5 (0) | - PROGRAM FLIH CROSS MEMORY CONTROL REGISTER SAVEAREA 5 - MUST BE ON A DOUBLE WORD BOUNDARY. |
| 2424 | (978) | SIGNED | 4 | LCCAP5C3 (0) | - CONTROL REGISTER 3 |
| 2424 | (978) | SIGNED | 2 | LCCAPX5K | - PROGRAM KEY MASK |
| 2426 | (97A) | SIGNED | 2 | LCCAPX5S | - SASN |
| 2428 | (97C) | SIGNED | 4 | LCCAP5C4 (0) | - CONTROL REGISTER 4 |
| 2428 | (97C) | SIGNED | 2 | LCCAPX5A | - AX |
| 2430 | (97E) | SIGNED | 2 | LCCAPX5P | - PASN |
| 2432 | (980) | SIGNED | 4 | LCCAP5C5 | - ASTE REAL ADDRESS (CR5) |
| 2436 | (984) | SIGNED | 4 | LCCAP5C6 | - CONTROL REGISTER 6 |
| 2440 | (988) | SIGNED | 4 | LCCAP5C7 | - CONTROL REGISTER 7 |
| 2444 | (98C) | SIGNED | 4 | LCCAP5C8 (0) | - CONTROL REGISTER 8 |
| 2444 | (98C) | SIGNED | 2 | LCCAPEX5 | - EAX VALUE (LH CR8) |
| 2446 | (98E) | SIGNED | 2 | | - SECOND HALF OF CR8 |
| 2448 | (990) | SIGNED | 4 | LCCAP5C9 | - CONTROL REGISTER 9 |
| 2452 | (994) | SIGNED | 4 | LCCAP5CA | - CONTROL REGISTER 10 |
| 2456 | (998) | SIGNED | 4 | LCCAP5CB | - CONTROL REGISTER 11 |
| 2460 | (99C) | SIGNED | 4 | LCCAP5CC | - CONTROL REGISTER 12 |
| 2464 | (9A0) | SIGNED | 4 | LCCAP5CD | - CONTROL REGISTER 13 |
| 2468 | (9A4) | SIGNED | 4 | LCCAP5CE | - CONTROL REGISTER 14 |
| 2472 | (9A8) | SIGNED | 4 | LCCAP5CF | - PROGRAM FLIH RECURSION LINKAGE STACK ADDRESS SAVEAREA 5 (CR15) |
| 2476 | (9AC) | ADDRESS | 4 | LCCADSA5 | - REAL ADDRESS OF THE DATA SPACE ASTE CAUSING THE RECURSIVE FAULT. |
| 2480 | (9B0) | DBL WORD | 8 | LCCAPPS5 | - PROGRAM FLIH RECURSION PSW SA 5 |
| 2488 | (9B8) | BITSTRING | 4 | LCCAPIC5 | - PROGRAM FLIH RECURSION ILC AND INTERRUPT CODE SAVE AREA 5 |
| 2492 | (9BC) | SIGNED | 4 | LCCAPTE5 (0) | PROGRAM FLIH RECURSION TRANSLATION EXCEPTION ADDRESS SAVE AREA 5 |
| 2492 | (9BC) | BITSTRING | 3 | | - FIRST THREE BYTES OF ADDRESS |
| 2495 | (9BF) | BITSTRING | 1 | LCCAPSTL | - LAST BYTE OF LCCAPTE5 X '00' - PRIMARY STD USED X '01' - STD WAS AR QUALIFIED X '02' - SECONDARY STD USED X '03' - HOME STD USED. |
| 2496 | (9C0) | SIGNED | 4 | (0) | |
| 2496 | (9C0) | BITSTRING | 8 | LCCATTSC (0) | - Workunit Time Slice Interval Ownership: SRM Serialization: SRM Lock. |
| 2496 | (9C0) | SIGNED | 4 | LCCATTS1 | - High Order 32 bits of LCCATTSC Ownership: SRM Serialization: SRM Lock. |
| 2500 | (9C4) | SIGNED | 4 | LCCATTS2 | - Low Order 32 bits of LCCATTSC Ownership: SRM Serialization: SRM Lock. |
| 2504 | (9C8) | BITSTRING | 8 | LCCAWTSC (0) | - WAIT TASK TIME SLICE INTERVAL |
| 2504 | (9C8) | SIGNED | 4 | LCCAWTS1 | - HIGH ORDER 32 BITS |
| 2508 | (9CC) | SIGNED | 4 | LCCAWTS2 | - LOW ORDER 32 BITS |
| 2512 | (9D0) | SIGNED | 4 | LCCATP | - Workunit Preemption Count - number of workunit time slice expirations. Ownership: Supervisor Control. Serialization: Disablement on current processor. |
| 2516 | (9D4) | SIGNED | 4 | LCCATPU | - Unproductive Workunit Preemption Count - number of workunit time slice expirations that were not needed. Ownership: Supervisor Control Serialization: Disablement on current processor. |
| 2520 | (9D8) | SIGNED | 4 | LCCAWP | - WAIT PREEMPTION COUNT - NUMBER OF WAIT TASK TIME SLICE EXPIRATIONS |
| 2524 | (9DC) | SIGNED | 4 | LCCAWPU | - UNPRODUCTIVE WAIT PREEMPTION COUNT - NUMBER OF WAIT TASK TIME SLICE EXPIRATIONS THAT WERE NOT NEEDED |
| 2528 | (9E0) | SIGNED | 4 | LCCATPB | - Workunit Preemption Count Base - previous value of LCCATP Ownership: SRM Serialization: SRM Lock. |
| 2532 | (9E4) | SIGNED | 4 | LCCATPUB | - Unproductive Workunit Preemption Count Base - previous value of LCCATPU Ownership: SRM Serialization: SRM Lock. |
| 2536 | (9E8) | SIGNED | 4 | LCCAWPB | - WAIT PREEMPTION COUNT BASE - PREVIOUS VALUE OF LCCAWP |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|---------------|---|
| Dec | Hex | | | | |
| 2540 | (9EC) | SIGNED | 4 | LCCAWPUB | - UNPRODUCTIVE WAIT PREEMPTION COUNT BASE - PREVIOUS VALUE OF LCCAWPU |
| 2544 | (9F0) | SIGNED | 2 | LCCAOID | - Active ASID or Enclave ID when the workunit time slice expired |
| | | 1... .. | | LCCAENID | "X'80" - LCCAOID is an Enclave ID. |
| 2546 | (9F2) | BITSTRING | 1 | LCCAMTSC | Maximum number of dispatches per task |
| 2547 | (9F3) | BITSTRING | 1 | LCCACTSC | Number of consecutive dispatches remaining for this task |
| 2548 | (9F4) | ADDRESS | 4 | LCCAPPRI | - Priority of Active workunit when time slice expired SERIALIZATION: Disablement OWNERSHIP: Supervisor Control |
| 2552 | (9F8) | SIGNED | 4 | LCCACPTM | - THIS CPU'S COUNT DOWN TIMER OWNERSHIP: SUPERVISOR SERIALIZATION: NONE |
| 2556 | (9FC) | ADDRESS | 4 | LCCACLSLSD | - The address of the LSSD for the currently executing SRB routine. Only valid when an SRB is executing. |
| 2560 | (A00) | ADDRESS | 4 | LCCAWUQA (18) | - Array of Work Unit Queues for this processor. SERIALIZATION: Disablement OWNERSHIP: Supervisor Control |
| 2632 | (A48) | DBL WORD | 8 | LCCAEND (0) | END OF LCCA. |

LCCA Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|------------|------------|-----------|----------|------------|-----------|
| LCCA | 0 | | LCCACRIN | 2B5 | 8 |
| LCCAAACR | 21C | 80 | LCCACRLC | 2AC | 0 |
| LCCAAALOV | 618 | | LCCACRLE | 2B5 | 20 |
| LCCAAOLD | 298 | | LCCACRLM | 2B5 | 4 |
| LCCAAOLS | 21F | 8 | LCCACRRM | 2B5 | 40 |
| LCCABBCT | 200 | 0 | LCCACRRT | 2B5 | 10 |
| LCCABBRC | 568 | 0 | LCCACRST | 2B5 | 1 |
| LCCABFP | 3C1 | 10 | LCCACRTM | 2B4 | 80 |
| LCCABFPH | 3C1 | 1 | LCCACRYP | 21F | 80 |
| LCCABRCH | 2B8 | 2 | LCCACR0 | 9C | 0 |
| LCCABWTO | 2B8 | 1 | LCCACR8W | 558 | 0 |
| LCCACAFM | 6 | 0 | LCCACTSC | 9F3 | 0 |
| LCCACDSA | 594 | 0 | LCCACVSR | 2B8 | 4 |
| LCCACDSB | 598 | 0 | LCCACWEB | 344 | |
| LCCACDSC | 59C | 0 | LCCADBCT | 224 | 0 |
| LCCACDSD | 5A0 | 0 | LCCADCPU | 2A4 | |
| LCCACDSE | 5A4 | 0 | LCCADIEP | 96A | 0 |
| LCCACDSF | 5A8 | 0 | LCCADSA2 | 160 | |
| LCCACDSV | 56C | | LCCADSA5 | 9AC | |
| LCCACDS0 | 56C | 0 | LCCADSE1 | 3C0 | 80 |
| LCCACDS1 | 570 | 0 | LCCADSE2 | 3C0 | 40 |
| LCCACDS2 | 574 | 0 | LCCADSE3 | 3C0 | 20 |
| LCCACDS3 | 578 | 0 | LCCADSE4 | 3C0 | 10 |
| LCCACDS4 | 57C | 0 | LCCADSE5 | 3C0 | 8 |
| LCCACDS5 | 580 | 0 | LCCADSF1 | 21C | 0 |
| LCCACDS6 | 584 | 0 | LCCADSF2 | 21D | 0 |
| LCCACDS7 | 588 | 0 | LCCADSV1 | 228 | |
| LCCACDS8 | 58C | 0 | LCCADSV2 | 22C | |
| LCCACDS9 | 590 | 0 | LCCADSV3 | 230 | |
| LCCACDXM | 548 | 0 | LCCADSV4 | 234 | |
| LCCACHAP | 20D | 40 | LCCADSV5 | 238 | |
| LCCACLMS | 2B4 | 40 | LCCADSV6 | 23C | |
| LCCACLSLSD | 9FC | | LCCADS0F | 3C0 | 0 |
| LCCACPTM | 9F8 | 0 | LCCADS0W | 220 | |
| LCCACPUA | 4 | 0 | LCCADS7E | 21D | 2 |
| LCCACPUR | 20D | 20 | LCCAEE1R | 240 | |
| LCCACPUS | 218 | | LCCAEE2R | 244 | |
| LCCACRDP | 2B5 | 2 | LCCAEE3R | 248 | |
| LCCACREF | 2B5 | 80 | LCCAELKP | 470 | 0 |
| LCCACREX | 2B5 | 0 | LCCAEMS0 | 670 | 0 |
| LCCACRFL | 2B4 | 0 | LCCAEND | A48 | |

LCCA Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|-----------|------------|-----------|----------|------------|-----------|
| LCCAENID | 9F0 | 80 | LCCAPCR2 | 164 | |
| LCCAERIS | 20C | 40 | LCCAPCR3 | 824 | |
| LCCAESAV | 294 | | LCCAPCR4 | 864 | |
| LCCAESC2 | 2B9 | 80 | LCCAPCR5 | 96C | |
| LCCAESMR | 2B8 | 10 | LCCAPDXC | 97 | |
| LCCAESPN | 20D | 8 | LCCAPEEC | 92 | 0 |
| LCCAETP | 368 | 0 | LCCAPERA | 3C4 | |
| LCCAETPB | 36C | 0 | LCCAPERD | 3C2 | 0 |
| LCCAETSC | 21C | 20 | LCCAPEX1 | 314 | 0 |
| LCCAETR | 21D | 8 | LCCAPEX2 | 184 | 0 |
| LCCAETUS | 21D | 10 | LCCAPEX3 | 844 | 0 |
| LCCAEXSN | 20C | 1 | LCCAPEX4 | 884 | 0 |
| LCCAFPFL | 3C1 | 0 | LCCAPEX5 | 98C | 0 |
| LCCAFPWA | 28C | | LCCAPGMM | 50A | 0 |
| LCCAFPWR | 290 | | LCCAPGR1 | 8 | 0 |
| LCCAFWP | 354 | | LCCAPGR2 | 48 | 0 |
| LCCAFWPC | 358 | 0 | LCCAPGR3 | A0 | 0 |
| LCCAFWPP | 354 | 0 | LCCAPGR4 | 6C0 | 0 |
| LCCAHSCS | 21F | 40 | LCCAPGR5 | 8E4 | 0 |
| LCCAIIDUR | 3D4 | | LCCAPGTA | 2D2 | 0 |
| LCCAIIDUV | 3D0 | | LCCAPICC | 98 | 0 |
| LCCAIHRC | 208 | | LCCAPICD | 93 | 0 |
| LCCAIHR1 | 208 | 0 | LCCAPIC1 | 6B8 | 0 |
| LCCAIHR2 | 209 | 0 | LCCAPIC3 | 758 | 0 |
| LCCAIHR3 | 20A | 0 | LCCAPIC5 | 9B8 | 0 |
| LCCAIHR4 | 20B | 0 | LCCAPILC | 91 | 0 |
| LCCAINGR | 1E0 | 0 | LCCAPINT | 90 | |
| LCCAIINT | 20C | 2 | LCCAPMC | 93 | 40 |
| LCCAIIOC3 | 560 | 0 | LCCAPMFV | 969 | 0 |
| LCCAIIOC4 | 564 | 0 | LCCAPOST | 5F0 | 0 |
| LCCAIOR1 | 2E4 | 0 | LCCAPPER | 93 | 80 |
| LCCAIOR2 | 2E8 | 0 | LCCAPPRI | 9F4 | |
| LCCAIOR3 | 2EC | 0 | LCCAPPR2 | 24F | 0 |
| LCCAIOSS | 55C | 0 | LCCAPPSW | 88 | 0 |
| LCCAIOWA | 2E0 | | LCCAPPS1 | 6B0 | 0 |
| LCCAIOXM | 55C | | LCCAPPS3 | 750 | 0 |
| LCCALCCA | 0 | D3C3C3C1 | LCCAPPS5 | 9B0 | 0 |
| LCCALCCX | 28C | | LCCAPRMW | 53C | |
| LCCALCR0 | 2B0 | 0 | LCCAPRTN | 544 | |
| LCCALCXR | 290 | | LCCAPSB2 | 61C | |
| LCCALKFG | 2B6 | 0 | LCCAPSB5 | 924 | 0 |
| LCCALKG1 | 3E8 | 0 | LCCAPSLI | 700 | 0 |
| LCCALKG2 | 430 | 0 | LCCAPSMK | 21E | 0 |
| LCCALKRD | 2B6 | 10 | LCCAPSTA | 97 | 1 |
| LCCALOCK | 20C | 20 | LCCAPSTD | 97 | 0 |
| LCCALSDP | 624 | | LCCAPSTH | 97 | 3 |
| LCCALSHD | 748 | | LCCAPSTL | 9BF | 0 |
| LCCALSHP | 74C | | LCCAPSTP | 97 | 0 |
| LCCALSSD | 620 | | LCCAPSTS | 97 | 2 |
| LCCALWTM | 2C0 | 0 | LCCAPSW3 | 1D8 | 0 |
| LCCAMCR0 | 204 | 0 | LCCAPTCB | 540 | |
| LCCAMPEN | 204 | 10 | LCCAPTE1 | 6BC | 0 |
| LCCAMSF | 20D | 80 | LCCAPTE3 | 75C | 0 |
| LCCAMTSC | 9F2 | 0 | LCCAPTE5 | 9BC | |
| LCCANWEB | 348 | | LCCAPTR1 | 24C | 0 |
| LCCAOID | 9F0 | 0 | LCCAPTR2 | 24D | 0 |
| LCCAOILC | 822 | 0 | LCCAPTR3 | 24E | 0 |
| LCCAOORMT | 2D8 | | LCCAPTR5 | 968 | 0 |
| LCCAPAR1 | 760 | | LCCAPVAD | 94 | |
| LCCAPAR2 | E0 | | LCCAPVXM | 94 | 80 |
| LCCAPAR3 | 630 | | LCCAPWEB | 220 | |
| LCCAPAR4 | 7A0 | | LCCAPXM1 | 300 | |
| LCCAPAR5 | 928 | | LCCAPXM2 | 170 | |
| LCCAPASS | 21F | 20 | LCCAPXM3 | 830 | |
| LCCAPCR1 | 2F4 | | LCCAPXM4 | 870 | |

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------|---------------|--------------|----------|---------------|--------------|
| LCCAPXM5 | 978 | | LCCAP2A6 | F8 | 0 |
| LCCAPX1A | 304 | 0 | LCCAP2A7 | FC | 0 |
| LCCAPX1K | 300 | 0 | LCCAP2A8 | 100 | 0 |
| LCCAPX1P | 306 | 0 | LCCAP2A9 | 104 | 0 |
| LCCAPX1S | 302 | 0 | LCCAP2CA | 18C | 0 |
| LCCAPX2A | 174 | 0 | LCCAP2CB | 190 | 0 |
| LCCAPX2K | 170 | 0 | LCCAP2CC | 194 | 0 |
| LCCAPX2P | 176 | 0 | LCCAP2CD | 198 | 0 |
| LCCAPX2S | 172 | 0 | LCCAP2CE | 19C | 0 |
| LCCAPX3A | 834 | 0 | LCCAP2CF | 1A0 | 0 |
| LCCAPX3K | 830 | 0 | LCCAP2C0 | 164 | 0 |
| LCCAPX3P | 836 | 0 | LCCAP2C1 | 168 | 0 |
| LCCAPX3S | 832 | 0 | LCCAP2C2 | 16C | 0 |
| LCCAPX4A | 874 | 0 | LCCAP2C3 | 170 | |
| LCCAPX4K | 870 | 0 | LCCAP2C4 | 174 | |
| LCCAPX4P | 876 | 0 | LCCAP2C5 | 178 | 0 |
| LCCAPX4S | 872 | 0 | LCCAP2C6 | 17C | 0 |
| LCCAPX5A | 97C | 0 | LCCAP2C7 | 180 | 0 |
| LCCAPX5K | 978 | 0 | LCCAP2C8 | 184 | |
| LCCAPX5P | 97E | 0 | LCCAP2C9 | 188 | 0 |
| LCCAPX5S | 97A | 0 | LCCAP3AA | 658 | 0 |
| LCCAP1AA | 788 | 0 | LCCAP3AB | 65C | 0 |
| LCCAP1AB | 78C | 0 | LCCAP3AC | 660 | 0 |
| LCCAP1AC | 790 | 0 | LCCAP3AD | 664 | 0 |
| LCCAP1AD | 794 | 0 | LCCAP3AE | 668 | 0 |
| LCCAP1AE | 798 | 0 | LCCAP3AF | 66C | 0 |
| LCCAP1AF | 79C | 0 | LCCAP3A0 | 630 | 0 |
| LCCAP1A0 | 760 | 0 | LCCAP3A1 | 634 | 0 |
| LCCAP1A1 | 764 | 0 | LCCAP3A2 | 638 | 0 |
| LCCAP1A2 | 768 | 0 | LCCAP3A3 | 63C | 0 |
| LCCAP1A3 | 76C | 0 | LCCAP3A4 | 640 | 0 |
| LCCAP1A4 | 770 | 0 | LCCAP3A5 | 644 | 0 |
| LCCAP1A5 | 774 | 0 | LCCAP3A6 | 648 | 0 |
| LCCAP1A6 | 778 | 0 | LCCAP3A7 | 64C | 0 |
| LCCAP1A7 | 77C | 0 | LCCAP3A8 | 650 | 0 |
| LCCAP1A8 | 780 | 0 | LCCAP3A9 | 654 | 0 |
| LCCAP1A9 | 784 | 0 | LCCAP3CA | 84C | 0 |
| LCCAP1CA | 31C | 0 | LCCAP3CB | 850 | 0 |
| LCCAP1CB | 320 | 0 | LCCAP3CC | 854 | 0 |
| LCCAP1CC | 324 | 0 | LCCAP3CD | 858 | 0 |
| LCCAP1CD | 328 | 0 | LCCAP3CE | 85C | 0 |
| LCCAP1CE | 32C | 0 | LCCAP3CF | 860 | 0 |
| LCCAP1CF | 330 | 0 | LCCAP3C0 | 824 | 0 |
| LCCAP1C0 | 2F4 | 0 | LCCAP3C1 | 828 | 0 |
| LCCAP1C1 | 2F8 | 0 | LCCAP3C2 | 82C | 0 |
| LCCAP1C2 | 2FC | 0 | LCCAP3C3 | 830 | |
| LCCAP1C3 | 300 | | LCCAP3C4 | 834 | |
| LCCAP1C4 | 304 | | LCCAP3C5 | 838 | 0 |
| LCCAP1C5 | 308 | 0 | LCCAP3C6 | 83C | 0 |
| LCCAP1C6 | 30C | 0 | LCCAP3C7 | 840 | 0 |
| LCCAP1C7 | 310 | 0 | LCCAP3C8 | 844 | |
| LCCAP1C8 | 314 | | LCCAP3C9 | 848 | 0 |
| LCCAP1C9 | 318 | 0 | LCCAP4AA | 7C8 | 0 |
| LCCAP2AA | 108 | 0 | LCCAP4AB | 7CC | 0 |
| LCCAP2AB | 10C | 0 | LCCAP4AC | 7D0 | 0 |
| LCCAP2AC | 110 | 0 | LCCAP4AD | 7D4 | 0 |
| LCCAP2AD | 114 | 0 | LCCAP4AE | 7D8 | 0 |
| LCCAP2AE | 118 | 0 | LCCAP4AF | 7DC | 0 |
| LCCAP2AF | 11C | 0 | LCCAP4A0 | 7A0 | 0 |
| LCCAP2A0 | E0 | 0 | LCCAP4A1 | 7A4 | 0 |
| LCCAP2A1 | E4 | 0 | LCCAP4A2 | 7A8 | 0 |
| LCCAP2A2 | E8 | 0 | LCCAP4A3 | 7AC | 0 |
| LCCAP2A3 | EC | 0 | LCCAP4A4 | 7B0 | 0 |
| LCCAP2A4 | F0 | 0 | LCCAP4A5 | 7B4 | 0 |
| LCCAP2A5 | F4 | 0 | LCCAP4A6 | 7B8 | 0 |

LCCA Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------|---------------|--------------|----------|---------------|--------------|
| LCCAP4A7 | 7BC | 0 | LCCARAR7 | 7FC | 0 |
| LCCAP4A8 | 7C0 | 0 | LCCARAR8 | 800 | 0 |
| LCCAP4A9 | 7C4 | 0 | LCCARAR9 | 804 | 0 |
| LCCAP4CA | 88C | 0 | LCCARCPU | 2A8 | |
| LCCAP4CB | 890 | 0 | LCCARCRA | 8CC | 0 |
| LCCAP4CC | 894 | 0 | LCCARCRB | 8D0 | 0 |
| LCCAP4CD | 898 | 0 | LCCARCRC | 8D4 | 0 |
| LCCAP4CE | 89C | 0 | LCCARCRD | 8D8 | 0 |
| LCCAP4CF | 8A0 | 0 | LCCARCRE | 8DC | 0 |
| LCCAP4C0 | 864 | 0 | LCCARCRF | 8E0 | 0 |
| LCCAP4C1 | 868 | 0 | LCCARCRS | 8A4 | |
| LCCAP4C2 | 86C | 0 | LCCARCR0 | 8A4 | 0 |
| LCCAP4C3 | 870 | | LCCARCR1 | 8A8 | 0 |
| LCCAP4C4 | 874 | | LCCARCR2 | 8AC | 0 |
| LCCAP4C5 | 878 | 0 | LCCARCR3 | 8B0 | |
| LCCAP4C6 | 87C | 0 | LCCARCR4 | 8B4 | |
| LCCAP4C7 | 880 | 0 | LCCARCR5 | 8B8 | 0 |
| LCCAP4C8 | 884 | | LCCARCR6 | 8BC | 0 |
| LCCAP4C9 | 888 | 0 | LCCARCR7 | 8C0 | 0 |
| LCCAP5AA | 950 | 0 | LCCARCR8 | 8C4 | |
| LCCAP5AB | 954 | 0 | LCCARCR9 | 8C8 | 0 |
| LCCAP5AC | 958 | 0 | LCCAREAX | 8C4 | 0 |
| LCCAP5AD | 95C | 0 | LCCARES1 | 50C | 0 |
| LCCAP5AE | 960 | 0 | LCCARES2 | 528 | 0 |
| LCCAP5AF | 964 | 0 | LCCARSGR | 120 | 0 |
| LCCAP5A0 | 928 | 0 | LCCARSME | 50C | |
| LCCAP5A1 | 92C | 0 | LCCARSMK | 509 | 0 |
| LCCAP5A2 | 930 | 0 | LCCARSTP | 2B8 | 40 |
| LCCAP5A3 | 934 | 0 | LCCARSTR | 20C | 8 |
| LCCAP5A4 | 938 | 0 | LCCARSWS | 224 | 80 |
| LCCAP5A5 | 93C | 0 | LCCARWEB | 5EC | |
| LCCAP5A6 | 940 | 0 | LCCARWLK | 5EC | 80 |
| LCCAP5A7 | 944 | 0 | LCCARWQL | 37C | |
| LCCAP5A8 | 948 | 0 | LCCARXMR | 8B0 | |
| LCCAP5A9 | 94C | 0 | LCCARXRA | 8B4 | 0 |
| LCCAP5CA | 994 | 0 | LCCARXRK | 8B0 | 0 |
| LCCAP5CB | 998 | 0 | LCCARXRP | 8B6 | 0 |
| LCCAP5CC | 99C | 0 | LCCARXRS | 8B2 | 0 |
| LCCAP5CD | 9A0 | 0 | LCCAR1A4 | 1A4 | 0 |
| LCCAP5CE | 9A4 | 0 | LCCAR2DC | 2DC | 0 |
| LCCAP5CF | 9A8 | 0 | LCCAR2F0 | 2F0 | 0 |
| LCCAP5C0 | 96C | 0 | LCCAR265 | 265 | 0 |
| LCCAP5C1 | 970 | 0 | LCCAR270 | 270 | |
| LCCAP5C2 | 974 | 0 | LCCAR35C | 35C | 0 |
| LCCAP5C3 | 978 | | LCCAR370 | 370 | 0 |
| LCCAP5C4 | 97C | | LCCAR820 | 820 | 0 |
| LCCAP5C5 | 980 | 0 | LCCASAFN | 2D0 | 0 |
| LCCAP5C6 | 984 | 0 | LCCASCFL | 21F | 0 |
| LCCAP5C7 | 988 | 0 | LCCASCSA | 4C0 | 0 |
| LCCAP5C8 | 98C | | LCCASCW1 | 3D8 | |
| LCCAP5C9 | 990 | 0 | LCCASCW2 | 3DC | |
| LCCARARA | 808 | 0 | LCCASDUR | 3CC | |
| LCCARARB | 80C | 0 | LCCASDUV | 3C8 | |
| LCCARARC | 810 | 0 | LCCASGPR | 380 | 0 |
| LCCARARD | 814 | 0 | LCCASIGS | 20C | 80 |
| LCCARARE | 818 | 0 | LCCASLEB | 2B8 | |
| LCCARARF | 81C | 0 | LCCASLE1 | 2B8 | 0 |
| LCCARARS | 7E0 | | LCCASLE2 | 2B9 | 0 |
| LCCARAR0 | 7E0 | 0 | LCCASLIP | 2BC | |
| LCCARAR1 | 7E4 | 0 | LCCASLSA | 5AC | 0 |
| LCCARAR2 | 7E8 | 0 | LCCASMQJ | 360 | 0 |
| LCCARAR3 | 7EC | 0 | LCCASMSK | 508 | 0 |
| LCCARAR4 | 7F0 | 0 | LCCASOPI | 97 | 4 |
| LCCARAR5 | 7F4 | 0 | LCCASPIN | 20C | |
| LCCARAR6 | 7F8 | 0 | LCCASPLJ | 364 | 0 |

| Name | Hex Offset | Hex Value |
|----------|------------|-----------|
| LCCASPN1 | 20C | 0 |
| LCCASPN2 | 20D | 0 |
| LCCASPN3 | 20E | 0 |
| LCCASPN4 | 20F | 0 |
| LCCASPSW | 534 | 0 |
| LCCASRBF | 2D0 | |
| LCCASRBJ | 2A0 | 0 |
| LCCASRBM | 21D | 80 |
| LCCASREG | 4D4 | 0 |
| LCCASRGS | 538 | 0 |
| LCCASRSA | 550 | 0 |
| LCCASRTK | 554 | 0 |
| LCCASRXM | 550 | |
| LCCASSA2 | 2C8 | |
| LCCASSA5 | 2CC | |
| LCCASSRB | 21D | 20 |
| LCCASSTA | 2D8 | 40 |
| LCCASSTD | 2D8 | 80 |
| LCCASSTE | 2D8 | 20 |
| LCCASTAS | 20D | 10 |
| LCCASTCP | 2B8 | 80 |
| LCCASTCT | 264 | 0 |
| LCCASTG1 | 478 | 0 |
| LCCASTST | 20D | 4 |
| LCCASVC6 | 21C | 4 |
| LCCASXLS | 20D | 2 |
| LCCASXMR | 3E0 | 0 |
| LCCATCAC | 50B | 40 |
| LCCATCFB | 50B | 0 |
| LCCATCR0 | 250 | 0 |
| LCCATCTL | 50B | 80 |
| LCCATCT2 | 21C | 2 |
| LCCATIMR | 21C | 10 |
| LCCATODH | 210 | 0 |
| LCCATODL | 214 | 0 |
| LCCATOLD | 29C | |
| LCCATOLS | 21F | 4 |
| LCCATP | 9D0 | 0 |
| LCCATPB | 9E0 | 0 |
| LCCATPU | 9D4 | 0 |
| LCCATPUB | 9E4 | 0 |
| LCCATSMC | 21C | 8 |
| LCCATSPN | 20C | 10 |
| LCCATTSC | 9C0 | |
| LCCATTS1 | 9C0 | 0 |
| LCCATTS2 | 9C4 | 0 |
| LCCATVS | 21D | 4 |
| LCCATVSE | 21F | 10 |
| LCCATVS2 | 21D | 1 |
| LCCATVS3 | 21F | 2 |
| LCCAVARY | 2B4 | 1 |
| LCCAVCPU | 21C | 40 |
| LCCAVTOD | 2B8 | 20 |
| LCCAWDT | 334 | 0 |
| LCCAWFCT | 202 | 0 |
| LCCAWP | 9D8 | 0 |
| LCCAWPB | 9E8 | 0 |
| LCCAWPU | 9DC | 0 |
| LCCAWPUB | 9EC | 0 |
| LCCAWS | 260 | 0 |
| LCCAWSO | 258 | 0 |
| LCCAWSU | 25C | 0 |
| LCCAWTD | 254 | 0 |
| LCCAWTIM | 268 | 0 |
| LCCAWTSC | 9C8 | |

| Name | Hex Offset | Hex Value |
|----------|------------|-----------|
| LCCAWTS1 | 9C8 | 0 |
| LCCAWTS2 | 9CC | 0 |
| LCCAWUQA | A00 | |
| LCCAWUQI | 34C | 0 |
| LCCAWUQM | 350 | |
| LCCAWUQR | 34E | 0 |
| LCCAXLS | 2B9 | 40 |
| LCCAXMFA | 2B8 | 8 |
| LCCAXRC1 | 208 | 80 |
| LCCAXRC2 | 208 | 40 |
| LCCAXTIM | 628 | 0 |

LCCAVT Heading Information

Common Name: Logical Configuration Communication Area Vector Table
Macro ID: IHALCCAT
DSECT Name: LCCAVT
Owning Component: Supervisor Control (SC1C5)
Eye-Catcher ID: None
Storage Attributes: Subpool: 245
 Key: 0
Size: Offset of LCCATEND minus offset of LCCAVT
Created by: IEAVNIP0
Pointed to by: CVTLCCAT field of the CVT data area
Serialization: None
Function: Contains address of LCCA for each processor.

LCCAVT Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|--------------|------------------------------|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | LCCAVT | |
| 0 | (0) | ADDRESS | 4 | LCCAT00P | - ADDRESS OF LCCA FOR CPU 0 |
| 4 | (4) | ADDRESS | 4 | LCCAT01P | - ADDRESS OF LCCA FOR CPU 1 |
| 8 | (8) | ADDRESS | 4 | LCCAT02P | - ADDRESS OF LCCA FOR CPU 2 |
| 12 | (C) | ADDRESS | 4 | LCCAT03P | - ADDRESS OF LCCA FOR CPU 3 |
| 16 | (10) | ADDRESS | 4 | LCCAT04P | - ADDRESS OF LCCA FOR CPU 4 |
| 20 | (14) | ADDRESS | 4 | LCCAT05P | - ADDRESS OF LCCA FOR CPU 5 |
| 24 | (18) | ADDRESS | 4 | LCCAT06P | - ADDRESS OF LCCA FOR CPU 6 |
| 28 | (1C) | ADDRESS | 4 | LCCAT07P | - ADDRESS OF LCCA FOR CPU 7 |
| 32 | (20) | ADDRESS | 4 | LCCAT08P | - ADDRESS OF LCCA FOR CPU 8 |
| 36 | (24) | ADDRESS | 4 | LCCAT09P | - ADDRESS OF LCCA FOR CPU 9 |
| 40 | (28) | ADDRESS | 4 | LCCAT10P | - ADDRESS OF LCCA FOR CPU 10 |
| 44 | (2C) | ADDRESS | 4 | LCCAT11P | - ADDRESS OF LCCA FOR CPU 11 |
| 48 | (30) | ADDRESS | 4 | LCCAT12P | - ADDRESS OF LCCA FOR CPU 12 |
| 52 | (34) | ADDRESS | 4 | LCCAT13P | - ADDRESS OF LCCA FOR CPU 13 |
| 56 | (38) | ADDRESS | 4 | LCCAT14P | - ADDRESS OF LCCA FOR CPU 14 |
| 60 | (3C) | ADDRESS | 4 | LCCAT15P | - ADDRESS OF LCCA FOR CPU 15 |
| 64 | (40) | DBL WORD | 8 | LCCATEND (0) | - END OF LCCAT |

LCCAVT Cross Reference

| Name | Hex Offset | Hex Value |
|----------|------------|-----------|
| LCCATEND | 40 | |
| LCCAT00P | 0 | |
| LCCAT01P | 4 | |
| LCCAT02P | 8 | |
| LCCAT03P | C | |
| LCCAT04P | 10 | |
| LCCAT05P | 14 | |
| LCCAT06P | 18 | |
| LCCAT07P | 1C | |
| LCCAT08P | 20 | |
| LCCAT09P | 24 | |
| LCCAT10P | 28 | |
| LCCAT11P | 2C | |
| LCCAT12P | 30 | |
| LCCAT13P | 34 | |
| LCCAT14P | 38 | |
| LCCAT15P | 3C | |
| LCCAVT | 0 | |

LCT Heading Information

Common Name: Linkage Control Table
Macro ID: IEFALLCT
DSECT Name: None provided
Owning Component: Initiator (SC1B6)
Eye-Catcher ID: None
Storage Attributes: Subpool: 236, 237, or 241, as indicated by the JSCBSWSP field of the JSCB pointed to by the jobstep TCB
 Key: Key 1
 Residency: Below 16 MB in virtual storage
Size: 512 bytes
Created by: IEFSD160
Pointed to by: SSJSLCT field of the SSJS data area
Serialization: Overall there is no serialization of the LCT, it is expected to be addressable by 1 task at a time.
Function: Communications area used by the initiator routines.

LCT Map

| Offsets | | | | | |
|--|------|------------|-----|------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 512 | LCT | |
| 0 | (0) | ADDRESS | 4 | LCTQDRTY | Address of the CSCB for the current piece of work |
| 0 | (0) | BITSTRING | 1 | * | RESERVED Y02652 |
| 1 | (1) | ADDRESS | 3 | * | ADDRESS OF THE JOB CSCB |
| Comment | | | | | |
| LCTSRTAD HAS BEEN DELETED THIS CAN BE OBTAINED FROM CVTDCQ | | | | | |
| End of Comment | | | | | |
| 4 | (4) | ADDRESS | 4 | LCTSAVEA | POINTER TO THE SAVEAREA FROM IEFSD161 ON ENTRY TO: IEFSD101, IEFSD164 |
| 8 | (8) | ADDRESS | 4 | LCTTCBAD | |
| 8 | (8) | BITSTRING | 1 | * | UNUSED |
| 9 | (9) | ADDRESS | 3 | * | CURRENT TCB ADDRESS Y02652 |
| 12 | (C) | ADDRESS | 4 | LCTQENTY | |
| 12 | (C) | BITSTRING | 1 | * | |
| | | 1... .. | | LCTTIMAB | TIMER ABEND HAS OCCURRED |
| | | .1.. .. | | * | USED IN CONJUNCTION WITH NOSEP |
| | | ..1. | | * | DEVICE WAIT RECOVERY |
| | | ...1 | | * | SPACE WAIT RECOVERY |
| | | 1... | | LCTTIMNG | ERROR HAS OCCURED DURING INITIATOR TIMING CALCULATIONS |
| | |1.. | | LCTTIMDN | Indicates to IEFIB621 that IEFSD263 completed the timing calculations. |
| | |1. | | LCTNOTIM | Do not time this step, since TIME=1440 was specified. |
| | |1 | | LCTERRM | JOB TERMINATION STATUS |
| 13 | (D) | ADDRESS | 3 | * | SAVE AREA ADDRESS OF LINKER |
| 16 | (10) | ADDRESS | 4 | LCTJCTAD | |
| 16 | (10) | BITSTRING | 1 | * | UNUSED |
| 17 | (11) | ADDRESS | 3 | * | JCT STORAGE ADDRESS OR 0 |
| 20 | (14) | ADDRESS | 4 | LCTSCTAD | |
| 20 | (14) | BITSTRING | 1 | * | UNUSED |
| 21 | (15) | ADDRESS | 3 | * | SCT STORAGE ADDRESS OR 0 Y02669 |
| 24 | (18) | ADDRESS | 4 | LCTSCTDA | SCT SWA ADDRESS |
| 24 | (18) | ADDRESS | 4 | LCTWORKA | |
| 24 | (18) | ADDRESS | 3 | LCTSCTVA | SCT SWA VIRTUAL ADDRESS |
| 27 | (1B) | BITSTRING | 1 | * | UNUSED |

LCT Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------------------------------------|------|------------|-----|------------|--|
| Dec | Hex | | | | |
| Comment | | | | | |
| LCTPSPAR HAS BEEN DELETED USE CVTQMWR | | | | | |
| End of Comment | | | | | |
| 28 | (1C) | CHARACTER | 4 | LCTSCHNM | SCHEDULER NAME |
| 32 | (20) | SIGNED | 4 | LCTERROR | ERROR CODES |
| 32 | (20) | BITSTRING | 1 | LCTERR | LCTERR bits initialized by Batch Allocation Y02670 |
| | | 1... | | LCTJFAIL | IF ON, JOB FAILED Y02670 |
| | | .1.. | | LCTSALCD | IF ON, AT LEAST ONE STEP WAS ALLOCATED Y02670 |
| | | ..1. | | LCTPALCD | IF ON, THIS STEP PARTIALLY ALLOCATED Y02670 |
| | | ...1 | | LCTSFAIL | IF ON, STEP BYPASSED Y02670 |
| | | 1... | | LCTACOMP | IF ON ALLOCATION HAS BEEN COMPLETED BUT UNALLOCATION IS YET TO RUN. USED TO TEST FOR RETRY IN THE INIT ESTAE YM07219 |
| | |1.. | | LCTJCFAL | ON IF JOB FAILED BECAUSE CONDITION CODES |
| | |1. | | LCTVTERM | ON IF ALLOC FAILED AND MSS SELECTS DONE |
| | |1 | | LCTCANCL | On if a CANCEL command is being processed |
| 36 | (24) | SIGNED | 4 | LCTPARM1 | MULTI USE PARAMETER FIELD |
| 40 | (28) | SIGNED | 4 | LCTPARM2 | MULTI USE PARAMETER FIELD |
| 44 | (2C) | SIGNED | 4 | LCTPARM3 | MULTI USE PARAMETER FIELD |
| 48 | (30) | SIGNED | 4 | LCTPARM4 | MULTI USE PARAMETER FIELD |
| 52 | (34) | CHARACTER | 16 | * | Reserved |
| Comment | | | | | |
| 25@LBD | | | | | |
| End of Comment | | | | | |
| 68 | (44) | ADDRESS | 4 | LCTCOMCD | WARMSTART ABEND CODE Y02641 |
| 68 | (44) | ADDRESS | 2 | LCTCOMD1 | WARMSTART COMP. CODE Y02641 |
| 70 | (46) | ADDRESS | 2 | LCTCOMD2 | WARMSTART COMP. CODE Y02641 |
| 72 | (48) | ADDRESS | 4 | * | Reserved |
| Comment | | | | | |
| 5@LBD | | | | | |
| End of Comment | | | | | |
| 76 | (4C) | ADDRESS | 4 | * | |
| 76 | (4C) | BITSTRING | 1 | LCTINTSW | INITIATOR INTERNAL SWITCH |
| | | 1... | | LCTINPPT | PGM. NAME IS IN PPT Y02656 |
| | | .1.. | | LCTPRIV | PROGRAM IS PRIVILEGED Y02655 |
| | | ..1. | | LCTPPAA | ISSUE MESSAGE FOR 'PROBLEM PROG. ATTRIBURES ASSIGNED' Y02656 |
| | | ...1 | | * | Reserved |
| | | 1... | | LCTSTART | TASKNAME NOT FOUNND ON COMMAND |
| | |1.. | | LCTSTOP | INITIATOR INTERNAL STOP |
| | |1. | | LCTABEND | EXECUTED PGM ABENDED |
| | |1 | | * | Reserved |
| Comment | | | | | |
| 2@01D | | | | | |
| End of Comment | | | | | |
| 77 | (4D) | BITSTRING | 1 | LCTPUBYT | PREFERRED USAGE STORAGE |
| | | 1... | | LCT2LPU | 2ND LEVEL PREFERRED |
| | | .1.. | | LCT1LPU | 1ST LEVEL PREFERRED |
| | | ..1. | | LCTN2LP | NOT 2ND LEVEL PREFERRED |
| | | ...1 | | LCTNSWP | NON-SWAPPABLE |
| | | 1... | | * | UNUSED |
| | |1.. | | * | UNUSED |

| Offsets | | | | | |
|----------------|-------|------------|-----|--------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| | |1. | | * | UNUSED |
| | |1 | | * | UNUSED |
| 78 | (4E) | CHARACTER | 2 | * | RESERVED |
| 80 | (50) | CHARACTER | 16 | LCTTMWRK | TIMER WORK AREA Y02669 |
| 80 | (50) | SIGNED | 4 | LCTTJTU4 | TOTAL JOB TIME USED Y02669 |
| 80 | (50) | BITSTRING | 1 | * | RESERVED Y02669 |
| 81 | (51) | UNSIGNED | 3 | LCTTJTU3 | TOTAL JOB TIME USED Y02669 |
| 84 | (54) | SIGNED | 4 | LCTTSTL4 | STEP TIME LIMIT Y02669 |
| 84 | (54) | BITSTRING | 1 | * | RESERVED Y02669 |
| 85 | (55) | UNSIGNED | 3 | LCTTSTL3 | STEP TIME LIMIT Y02669 |
| 88 | (58) | SIGNED | 4 | LCTTSTR4 | STEP TIME REMAINING Y02669 |
| Comment | | | | | |
| 2@LBD | | | | | |
| End of Comment | | | | | |
| 88 | (58) | BITSTRING | 1 | * | Reserved |
| 89 | (59) | UNSIGNED | 3 | LCTTSTR3 | STEP TIME REMAINING Y02669 |
| 92 | (5C) | SIGNED | 4 | LCTTSTU4 | STEP TIME USED Y02669 |
| 92 | (5C) | BITSTRING | 1 | * | RESERVED Y02669 |
| 93 | (5D) | UNSIGNED | 3 | LCTTSTU3 | Step time used Y02669 |
| 96 | (60) | ADDRESS | 4 | LCTJOBLB | |
| 96 | (60) | BITSTRING | 1 | * | UNUSED |
| 97 | (61) | ADDRESS | 3 | * | POINTER TO JOBLIB OR STEPLIB DCB |
| 100 | (64) | ADDRESS | 4 | LCTATLST | |
| 100 | (64) | BITSTRING | 1 | * | UNUSED |
| 101 | (65) | ADDRESS | 3 | * | ADDRESS OF ALLOCATE/TERMINATE PARAMETER LIST |
| 104 | (68) | SIGNED | 4 | REGSAVE (36) | ALLOC/TERM REGISTER SAVE AREA |
| 248 | (F8) | SIGNED | 4 | QMGR1 (9) | QUEUE MGR PARAMETER AREA |
| 284 | (11C) | CHARACTER | 4 | LCTSMFLG | FOR SMF USE AT JOB TERM |
| 288 | (120) | CHARACTER | 8 | LCTVFWRK | VF TIMER WORK AREA |
| 288 | (120) | SIGNED | 4 | LCTTVFUT | STEP VF USAGE TIME |
| 292 | (124) | SIGNED | 4 | LCTTVFAT | STEP VF AFFINITY TIME |
| 296 | (128) | ADDRESS | 4 | LCTSCTXB | SCTX BLOCK ADDRESS |
| 300 | (12C) | ADDRESS | 4 | LCTACEE | ADDR OF RACF ACEE |
| 304 | (130) | ADDRESS | 4 | LCTPRSCT | Pointer to prior SCT |
| 308 | (134) | ADDRESS | 4 | LCTGTWRK | ADDRESS OF GETWORK ROUTINE LOADED BY IEFSD160 |
| 312 | (138) | ADDRESS | 4 | LCTRTWRK | ADDRESS OF RETWORK ROUTINE LOADED BY IEFSD160 |
| 316 | (13C) | ADDRESS | 4 | LCTFPNT | PTR TO INITIATOR FOOTPRINT |
| 320 | (140) | ADDRESS | 4 | LCTASCBA | ADDR OF CURRENT ASCB Y02669 |
| 324 | (144) | ADDRESS | 4 | LCTJMRAD | JMR address |
| 328 | (148) | ADDRESS | 4 | LCTECBAD | |
| 328 | (148) | ADDRESS | 4 | ECBLIST | |
| 328 | (148) | BITSTRING | 1 | * | |
| 329 | (149) | ADDRESS | 3 | * | PTR TO ECB LIST |
| 332 | (14C) | CHARACTER | 8 | * | Reserved |
| Comment | | | | | |
| 13@LBD | | | | | |
| End of Comment | | | | | |
| 340 | (154) | CHARACTER | 8 | LCTCLASS | JES3 JOB CLASS |
| 348 | (15C) | SIGNED | 4 | LCTTSRB4 | STEP SRB TIME USED Y02669 |
| 348 | (15C) | BITSTRING | 1 | * | RESERVED Y02669 |
| 349 | (15D) | UNSIGNED | 3 | LCTTSRB3 | STEP SRB TIME USED Y02669 |
| 352 | (160) | ADDRESS | 4 | LCTENTR | ADDR OF INIT ENTRANCE LIST |
| 352 | (160) | ADDRESS | 4 | LCTEXIT | ADDR OF INIT EXIT LIST |
| 352 | (160) | BITSTRING | 1 | * | |
| | | 1... | | * | RESERVED Y02652 |
| 353 | (161) | ADDRESS | 3 | LCTIHELP | ADDRESS OF IEL - USE FOR BASING |
| 356 | (164) | ADDRESS | 4 | * | RESERVED Y02652 |
| 356 | (164) | BITSTRING | 1 | LCTOPSW2 | INITIATOR OPTION BYTE 2 |

LCT Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|----------------|-------|------------|-----|------------|---|
| Dec | Hex | | | | |
| | | 1... | | LCTTIMEF | DO NOT TIME THIS |
| | | .1.. | | LCTCRF | DO NOT ALLOW CHECK/RESTART |
| | | ..1. | | LCTCKRST | THIS BIT IS SET BY IEFXB609 TO INFORM IEFSD101 TO INSERT PROGRAM NAME IEFIRSTRT IN SCT AFTER PPT PROCESSING |
| | | ...1 | | * | RESERVED Y02652 |
| | | 1... | | LCTINRES | Initiator is automatically restarted after termination |
| | |1.. | | LCTBPRAC | BYPASS RACINIT |
| | |1. | | LCTNORC | BYPASS ALLOC. RECOVERY Y02652 |
| | |1 | | LCTENQU | DO NOT WAIT FOR DATA SETS |
| 357 | (165) | BITSTRING | 1 | LCTOPSW3 | INITIATOR OPTION BYTE THREE |
| | | 1... | | * | RESERVED |
| | | .1.. | | * | Reserved |
| | | ..1. | | LCTNSYS | DO NOT ASSIGN SPECIAL PROPERTIES |
| | | ...1 | | * | UNUSED |
| | | 1... | | * | Reserved |
| | |1.. | | LCTALERR | ERROR DURING ALLOCATION |
| | |1. | | * | RESERVED |
| | |1 | | LCTJESCE | On if JES had a Catastrophic Error during a Transaction select or Transaction terminate call |
| 358 | (166) | BITSTRING | 1 | LCTTMBYT | Flag byte - all bits used |
| | | 1... | | LCTTIFJ | Time Limit is from JOB card |
| 359 | (167) | BITSTRING | 1 | LCTOPSW1 | INITIATOR OPTION BYTE 1 |
| | | 1... | | LCTDPSWA | DO NOT SET 'DO NOT SHARE SWA' ON ATTACH Y02621 |
| | | .1.. | | * | Reserved |
| | | ..1. | | * | RESERVED Y02652 |
| | | ...1 | | * | RESERVED Y02652 |
| | | 1... | | LCTCANF | ALLOW CANCEL ONLY AT ALLOC |
| | |1.. | | LCTONEJF | STARTED TASK INDICATOR |
| | |1. | | * | RESERVED Y02652 |
| | |1 | | * | RESERVED Y02652 |
| 360 | (168) | ADDRESS | 4 | LCTJSCB | ADDRESS OF JSCB |
| 360 | (168) | ADDRESS | 1 | * | RESERVED AS PART OF JSCB ADDRESS |
| 361 | (169) | ADDRESS | 3 | LCTJSCBP | ADDRESS OF JSCB |
| 364 | (16C) | SIGNED | 4 | LCTDATA1 | MULTI - USE DATA FIELD |
| 368 | (170) | SIGNED | 4 | LCTDATA2 | MULTI - USE DATA FIELD |
| 372 | (174) | BITSTRING | 1 | LCTDATA3 | MULTI - USE DATA FIELD |
| 373 | (175) | BITSTRING | 1 | LCTDATA4 | MULTI - USE DATA FIELD |
| 374 | (176) | SIGNED | 2 | * | RESERVED |
| 376 | (178) | ADDRESS | 4 | LCTPARAM | Address of the termination parameter list |
| 380 | (17C) | CHARACTER | 12 | * | RESERVED |
| 392 | (188) | ADDRESS | 4 | LCTJCTXB | JCTX SWA block address |
| 396 | (18C) | ADDRESS | 4 | LCTSYSPL | ADDR OF SYSEVENT PARAMETER LIST |
| 400 | (190) | ADDRESS | 4 | LCTSTEPL | ADDR OF STAE EXIT PARAMETER LIST FOR INITIATOR Y02653 |
| 404 | (194) | ADDRESS | 4 | LCTSSOBA | ADDR OF SSOB FOR THIS TASKY02668 |
| 408 | (198) | ADDRESS | 4 | LCTJCTDA | JCT SWA ADDRESS Y02652 |
| 408 | (198) | ADDRESS | 3 | LCTJCTVA | JCT SWA VIRTUAL ADDRESS Y02652 |
| 411 | (19B) | ADDRESS | 1 | * | RESERVED Y02652 |
| 412 | (19C) | SIGNED | 4 | LCTTIOTI | INIT TIOT TTR |
| 416 | (1A0) | CHARACTER | 2 | * | Reserved |
| Comment | | | | | |
| 17@LBD | | | | | |
| End of Comment | | | | | |
| 418 | (1A2) | BITSTRING | 1 | LCTRFB | RESTART FUNCTION SWITCHES |
| | | 1... | | LCTRFBMS | CALL IEFXB601 |
| | | .1.. | | LCTRFBRC | AUTOMATIC CHKPT. RESTART Y02641 |
| | | ..1. | | LCTRFBRV | SPECIAL WARMSTART PROCESSING |
| | | ...1 | | LCTRFBDC | DEFERRED CHECKPOINT/RESTART |
| | | 1... | | LCTRFBMS | DO NOT MODIFY JSB FIELDS |
| | |1. | | LCTRFBF | MERGE TO EOF OF JOURNAL |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|------------|---|
| Dec | Hex | | | | |
| | |1. | | LCTRFBRP | CALL IEFPREP |
| | |1 | | LCTRFBNB | NON-DEFERRED RESTART BIT FOR USE BY SMF EXCLUSIVELY. SET IN RESTART INTERFACE AND TURNED OFF DURING JOB TERMINATION |
| 419 | (1A3) | BITSTRING | 1 | LCTRFB1 | RESERVED FOR WARMSTART/RESTART |
| | | 1... | | LCTRSTST | FIRST STEP OF RESTART |
| | | .111 1111 | | * | RESERVED |
| 420 | (1A4) | ADDRESS | 4 | * | RESERVED Y02652 |
| 420 | (1A4) | ADDRESS | 1 | LCTTSIZ | TO INFORM ALLCOATION OF SIZE OF MASTER SCHED. TIOT Y02641 |
| 421 | (1A5) | BITSTRING | 1 | LCTINTS2 | INTERNAL SWITCHES, BYTE 2. IT WILL BE CLEARED FOR EVERY STEP BY IEFSD101. Y02652 |
| | | 1... | | LCTSYS | SYSTEM TASK REQUESTED Y02652 |
| | | .1. | | LCTBPPAS | BYPASS PASSWD PROTECT. |
| | | ..1. | | LCTTSWPC | TRANSWAP COMPLETED |
| | | ...1 | | LCTATTC | INITATT HAS BEEN ISSUED (RESET AT INITDET TIME) |
| | | 1.. | | LCTJSRGN | A REGION HAS BEEN OBTAINED FOR THE JOB STEP |
| | |1.. | | LCTSPREM | SPECIAL PROPERTIES ASSIGNED BUT THEN REMOVED BECAUSE JOBLIB OR STEPLIB NOT AUTHORIZED. |
| | |11 | | * | RESERVED |
| 422 | (1A6) | CHARACTER | 2 | * | RESERVED |
| 424 | (1A8) | ADDRESS | 4 | LCTTIOTP | ADDR OF TIOT STOR. FOR JOB |
| 428 | (1AC) | ADDRESS | 4 | * | Reserved |
| 432 | (1B0) | ADDRESS | 4 | * | Reserved |
| 436 | (1B4) | ADDRESS | 4 | LCTDSABQ | ADDRESS OF DSAB QDB STORAGE FOR JOB |
| 440 | (1B8) | CHARACTER | 64 | LCTIWORK | TEMPORARY WORK AREA, TO BE USED ONLY BY THE INITIATOR |
| 504 | (1F8) | CHARACTER | 8 | LCTLABEL | TO CONTAIN THE CHARACTERS 'ENDOFLCT', TO HELP IDENTIFY THE LCT IN A STORAGE DUMP |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|--------------|---|
| Dec | Hex | | | | |
| 104 | (68) | STRUCTURE | 144 | LCTRSVAVE | THIS STRUCTURE REDEFINES THE REGISTER SAVEAREA SO THAT IT CAN BE MORE EASILY USED |
| 104 | (68) | SIGNED | 4 | REGSAV1 (18) | FIRST SAVE AREA - Usually contains EPAs for SWA Manager |
| 176 | (B0) | SIGNED | 4 | REGSAV2 (18) | SECOND SAVEAREA USUALLY FOR SWA MANAGER |

LCT Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| ECBLIST | 148 | | LCTDATA3 | 174 | |
| LCT | 0 | | LCTDATA4 | 175 | |
| LCTABEND | 4C | 02 | LCTDPSWA | 167 | 80 |
| LCTACEE | 12C | | LCTDSABQ | 1B4 | |
| LCTACOMP | 20 | 08 | LCTECBAD | 148 | |
| LCTALERR | 165 | 04 | LCTENQU | 164 | 01 |
| LCTASCBA | 140 | | LCTENTR | 160 | |
| LCTATLST | 64 | | LCTERR | 20 | |
| LCTATTC | 1A5 | 10 | LCTERRM | C | 01 |
| LCTBPPAS | 1A5 | 40 | LCTERROR | 20 | |
| LCTBPRAC | 164 | 04 | LCTEXIT | 160 | |
| LCTCANCL | 20 | 01 | LCTFPNT | 13C | |
| LCTCANF | 167 | 08 | LCTGTWRK | 134 | |
| LCTCKRST | 164 | 20 | LCTIHELP | 161 | |
| LCTCLASS | 154 | | LCTINPPT | 4C | 80 |
| LCTCOMCD | 44 | | LCTINRES | 164 | 08 |
| LCTCOMD1 | 44 | | LCTINTSW | 4C | |
| LCTCOMD2 | 46 | | LCTINTS2 | 1A5 | |
| LCTCRF | 164 | 40 | LCTIWORK | 1B8 | |
| LCTDATA1 | 16C | | LCTJCFAL | 20 | 04 |
| LCTDATA2 | 170 | | LCTJCTAD | 10 | |

LCT Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| LCTJCTDA | 198 | | LCTTIMEF | 164 | 80 |
| LCTJCTVA | 198 | | LCTTIMNG | C | 08 |
| LCTJCTXB | 188 | | LCTTIOTI | 19C | |
| LCTJESCE | 165 | 01 | LCTTIOTP | 1A8 | |
| LCTJFAIL | 20 | 80 | LCTTJTU3 | 51 | |
| LCTJMRAD | 144 | | LCTTJTU4 | 50 | |
| LCTJOBLB | 60 | | LCTTMBYT | 166 | |
| LCTJSCB | 168 | | LCTTMWRK | 50 | |
| LCTJSCBP | 169 | | LCTTSIZ | 1A4 | |
| LCTJSRGN | 1A5 | 08 | LCTTSRB3 | 15D | |
| LCTLABEL | 1F8 | | LCTTSRB4 | 15C | |
| LCTNORC | 164 | 02 | LCTTSTL3 | 55 | |
| LCTNOTIM | C | 02 | LCTTSTL4 | 54 | |
| LCTNSWP | 4D | 10 | LCTTSTR3 | 59 | |
| LCTNSYS | 165 | 20 | LCTTSTR4 | 58 | |
| LCTN2LP | 4D | 20 | LCTTSTU3 | 5D | |
| LCTONEJF | 167 | 04 | LCTTSTU4 | 5C | |
| LCTOPSW1 | 167 | | LCTTSWPC | 1A5 | 20 |
| LCTOPSW2 | 164 | | LCTTVFAT | 124 | |
| LCTOPSW3 | 165 | | LCTTVFUT | 120 | |
| LCTPALCD | 20 | 20 | LCTVFWRK | 120 | |
| LCTPARAM | 178 | | LCTVTERM | 20 | 02 |
| LCTPARM1 | 24 | | LCTWORKA | 18 | |
| LCTPARM2 | 28 | | LCT1LPU | 4D | 40 |
| LCTPARM3 | 2C | | LCT2LPU | 4D | 80 |
| LCTPARM4 | 30 | | QMGR1 | F8 | |
| LCTPPAA | 4C | 20 | REGSAVE | 68 | |
| LCTPRIV | 4C | 40 | REGSAV1 | 68 | |
| LCTPRSCT | 130 | | REGSAV2 | B0 | |
| LCTPUBYT | 4D | | | | |
| LCTQDRTY | 0 | | | | |
| LCTQENTY | C | | | | |
| LCTRFB | 1A2 | | | | |
| LCTRFBCR | 1A2 | 40 | | | |
| LCTRFBDC | 1A2 | 10 | | | |
| LCTRFBEF | 1A2 | 04 | | | |
| LCTRFBMS | 1A2 | 08 | | | |
| LCTRFBND | 1A2 | 01 | | | |
| LCTRFBRP | 1A2 | 02 | | | |
| LCTRFBRV | 1A2 | 20 | | | |
| LCTRFBSM | 1A2 | 80 | | | |
| LCTRFB1 | 1A3 | | | | |
| LCTRSAVE | 68 | | | | |
| LCTRSTST | 1A3 | 80 | | | |
| LCTRTRWK | 138 | | | | |
| LCTSALCD | 20 | 40 | | | |
| LCTSAVEA | 4 | | | | |
| LCTSCHNM | 1C | | | | |
| LCTSCTAD | 14 | | | | |
| LCTSCTDA | 18 | | | | |
| LCTSCTVA | 18 | | | | |
| LCTSCTXB | 128 | | | | |
| LCTSFAIL | 20 | 10 | | | |
| LCTSMFLG | 11C | | | | |
| LCTSPREM | 1A5 | 04 | | | |
| LCTSSOBA | 194 | | | | |
| LCTSTART | 4C | 08 | | | |
| LCTSTEPL | 190 | | | | |
| LCTSTOP | 4C | 04 | | | |
| LCTSYS | 1A5 | 80 | | | |
| LCTSYSPL | 18C | | | | |
| LCTTCBAD | 8 | | | | |
| LCTTIFJ | 166 | 80 | | | |
| LCTTIMAB | C | 80 | | | |
| LCTTIMDN | C | 04 | | | |

LDA Heading Information

Common Name: VSM Local Data Area
Macro ID: IHALDA
DSECT Name: LDA
Owning Component: Virtual Storage Manager (SC1CH)
Eye-Catcher ID: LDA
 Offset: 0
 Length: 4
Storage Attributes: Subpool: 255
 Key: 0
 Residency: Above 16M
Size: 280 bytes
Created by: IEAIPLO4, IGVGCAS
Pointed to by: ASCBLDA, VSWKLDA
Serialization: LOCAL lock
Function: Contains control information about address space related virtual storage and VSM control block pointers.

LDA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 352 | LDA | LOCAL DATA AREA |
| 0 | (0) | CHARACTER | 4 | LDAID | CONTROL BLOCK IDENTIFIER |
| 4 | (4) | CHARACTER | 24 | LDAQANC | LSQA QUEUE ANCHORS |
| 4 | (4) | ADDRESS | 4 | LDASQAT | ADDRESS OF THE LSQA SQAT |
| 8 | (8) | ADDRESS | 4 | LDAAQAT | ADDRESS OF THE LSQA AQAT |
| 12 | (C) | CHARACTER | 16 | LDADFEQ | LSQA DFE QUEUE HEADER |
| 12 | (C) | ADDRESS | 4 | LDAADF | ADDRESS OF FIRST DFE ON THE LSQA ADDRESS QUEUE |
| 16 | (10) | ADDRESS | 4 | LDAADL | ADDRESS OF LAST DFE ON THE LSQA ADDRESS QUEUE |
| 20 | (14) | ADDRESS | 4 | LDASZF | ADDRESS OF FIRST DFE ON LSQA SIZE QUEUE |
| 24 | (18) | ADDRESS | 4 | LDASZL | ADDRESS OF LAST DFE ON LSQA SIZE QUEUE |
| 28 | (1C) | CHARACTER | 24 | LDAEANC | LSQA QUEUE ANCHORS - EXTENDED |
| 28 | (1C) | ADDRESS | 4 | LDAESQAT | ADDRESS OF THE LSQA SQAT |
| 32 | (20) | ADDRESS | 4 | LDAEAQAT | ADDRESS OF THE LSQA AQAT |
| 36 | (24) | CHARACTER | 16 | LDADFEQ | LSQA DFE QUEUE HEADER |
| 36 | (24) | ADDRESS | 4 | LDAEADF | ADDRESS OF FIRST DFE ON THE LSQA ADDRESS QUEUE |
| 40 | (28) | ADDRESS | 4 | LDAEADL | ADDRESS OF LAST DFE ON THE LSQA ADDRESS QUEUE |
| 44 | (2C) | ADDRESS | 4 | LDAESZF | ADDRESS OF FIRST DFE ON LSQA SIZE QUEUE |
| 48 | (30) | ADDRESS | 4 | LDAESZL | ADDRESS OF LAST DFE ON LSQA SIZE QUEUE |
| 52 | (34) | CHARACTER | 16 | LDAARD | ADDRESS SPACE REGION DESCRIPTOR |
| 52 | (34) | ADDRESS | 4 | LDAFBQAF | ADDRESS OF FIRST FBQE ON THE ADDRESS SPACE FBQE QUEUE |
| 56 | (38) | ADDRESS | 4 | LDAFBQAL | ADDRESS OF LAST FBQE ON THE ADDRESS SPACE FBQE QUEUE |
| 60 | (3C) | ADDRESS | 4 | LDASTRTA | LOW ADDRESS OF ADDRESS SPACE REGION |
| 64 | (40) | SIGNED | 4 | LDASIZA | SIZE OF ADDRESS SPACE REGION |
| 68 | (44) | CHARACTER | 16 | LDAEARD | ADDRESS SPACE REGION DESCRIPTOR - EXTENDED |
| 68 | (44) | ADDRESS | 4 | LDAEFBAF | ADDRESS OF FIRST FBQE ON THE ADDRESS SPACE FBQE QUEUE |
| 72 | (48) | ADDRESS | 4 | LDAEFBAL | ADDRESS OF LAST FBQE ON THE ADDRESS SPACE FBQE QUEUE |
| 76 | (4C) | ADDRESS | 4 | LDAESTRA | LOW ADDRESS OF ADDRESS SPACE REGION |
| 80 | (50) | SIGNED | 4 | LDAESIZA | SIZE OF ADDRESS SPACE REGION |
| 84 | (54) | CHARACTER | 16 | LDASRD | SYSTEM REGION DESCRIPTOR |
| 84 | (54) | ADDRESS | 4 | LDAFBQSF | ADDRESS OF THE FIRST FBQE ON THE SYSTEM REGION FBQE |

LDA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|--|
| Dec | Hex | | | | |
| 88 | (58) | ADDRESS | 4 | LDAFBQSL | ADDRESS OF THE LAST FBQE ON THE SYSTEM REGION FBQE |
| 92 | (5C) | ADDRESS | 4 | LDASTRTS | LOW ADDRESS OF SYSTEM REGION |
| 96 | (60) | SIGNED | 4 | LDASIZS | SIZE OF SYSTEM REGION |
| 100 | (64) | CHARACTER | 16 | LDAESRD | SYSTEM REGION DESCRIPTOR - EXTENDED |
| 100 | (64) | ADDRESS | 4 | LDAEFBSF | ADDRESS OF THE FIRST FBQE ON THE SYSTEM REGION FBQE |
| 104 | (68) | ADDRESS | 4 | LDAEFBSL | ADDRESS OF THE LAST FBQE ON THE SYSTEM REGION FBQE |
| 108 | (6C) | ADDRESS | 4 | LDAESTRS | LOW ADDRESS OF SYSTEM REGION |
| 112 | (70) | SIGNED | 4 | LDAESIZS | SIZE OF SYSTEM REGION |
| 116 | (74) | CHARACTER | 16 | LDARRD | V=R REGION DESCRIPTOR |
| 116 | (74) | ADDRESS | 4 | LDAFBQRF | ADDRESS OF THE FIRST FBQE ON THE V=R REGION FBQE QUEUE |
| 120 | (78) | ADDRESS | 4 | LDAFBQRL | ADDRESS OF THE LAST FBQE ON THE V=R REGION FBQE QUEUE |
| 124 | (7C) | ADDRESS | 4 | LDASTRTR | LOW ADDRESS OF THE V=R REGION |
| 128 | (80) | SIGNED | 4 | LDASIZR | SIZE OF THE V=R REGION |
| 132 | (84) | CHARACTER | 16 | LDAERRD | V=R REGION DESCRIPTOR - EXTENDED |
| 132 | (84) | ADDRESS | 4 | LDAEFBRF | ADDRESS OF THE FIRST FBQE ON THE V=R REGION FBQE QUEUE |
| 136 | (88) | ADDRESS | 4 | LDAEFBRL | ADDRESS OF THE LAST FBQE ON THE V=R REGION FBQE QUEUE |
| 140 | (8C) | ADDRESS | 4 | LDAESTRR | LOW ADDRESS OF THE V=R REGION |
| 144 | (90) | SIGNED | 4 | LDAESIZR | SIZE OF THE V=R REGION |
| 148 | (94) | ADDRESS | 4 | LDAAQTAD | Address of the first AQAT stack on the AQAT Q-stack. (This is always the persistent AQAT stack.) |
| 152 | (98) | ADDRESS | 4 | LDACRGTP | CURRENT HIGH ADDRESS OF PRIVATE AREA REGION |
| 156 | (9C) | ADDRESS | 4 | LDAERGTP | CURRENT HIGH ADDRESS OF PRIVATE AREA REGION - EXTENDED |
| 160 | (A0) | ADDRESS | 4 | LDADEFQ | ADDRESS OF DEFERRED RELEASE QUEUE |
| 164 | (A4) | ADDRESS | 4 | LDAAQTST | Address of the next free AQAT in the AQAT Q-stack. |
| 168 | (A8) | CHARACTER | 12 | LDACPANC | LSQA CELL POOL HEADER |
| 168 | (A8) | ADDRESS | 4 | LDACPADR | ADDRESS OF LSQA CELL POOL |
| 172 | (AC) | SIGNED | 4 | LDACPCNT | NUMBER OF FREE CELLS IN LSQA CELL POOL |
| 176 | (B0) | ADDRESS | 4 | LDAFCADR | ADDRESS OF FIRST FREE CELL IN LSQA CELL POOL |
| 180 | (B4) | ADDRESS | 4 | LDAWRKA | ADDRESS OF LOCAL WORK AREA |
| 184 | (B8) | ADDRESS | 4 | LDAASCB | ADDRESS OF ASCB FOR THIS ADDRESS SPACE |
| 188 | (BC) | ADDRESS | 4 | LDAPPD | ADDRESS OF LOCAL PPD QUEUE |
| 192 | (C0) | CHARACTER | 4 | * | RESERVED |
| 196 | (C4) | CHARACTER | 1 | LDAFLGS | MISC. FLAGS |
| | | 1... | | LDADFER | IF ONE DEFERRED RELEASE CONDITION EXISTS |
| | | .1.. | | LDADFEF | IF ONE FREE ASSOCIATED PAGE EXISTS |
| 197 | (C5) | CHARACTER | 3 | * | RESERVED |
| 200 | (C8) | CHARACTER | 24 | LDASIZES | MISC. SIZES |
| 200 | (C8) | CHARACTER | 1 | LDAUFLGS | USER FLAGS |
| | | 1... | | LDALIMCL | IF ZERO CALL IEALIMIT ROUTINE |
| | | .1.. | | LDAULIM | IF ZERO DO FBQE CHECK BELOW 16M |
| | | ..1. | | LDAEULIM | IF ONE DO FBQE CHECK ABOVE 16M |
| 201 | (C9) | CHARACTER | 3 | * | RESERVED |
| 204 | (CC) | SIGNED | 4 | LDAREGRQ | REGION SIZE REQUESTED |
| 208 | (D0) | ADDRESS | 4 | LDALIMIT | < 16M V=V REGION LIMIT VALUE |
| 212 | (D4) | ADDRESS | 4 | LDAVVRG | < 16M V=V REGION HIGH VALUE |
| 216 | (D8) | ADDRESS | 4 | LDAELIM | > 16M V=V REGION LIMIT VALUE |
| 220 | (DC) | ADDRESS | 4 | LDAEVVRG | > 16M V=V REGION HIGH VALUE |
| 224 | (E0) | CHARACTER | 8 | LDANONFM | NON-FREEMAINABLE PRIVATE AREAS |
| 224 | (E0) | CHARACTER | 8 | LDASM | NON-FREEMAINABLE STORAGE MANAGEMENT AREA |
| 224 | (E0) | ADDRESS | 4 | LDASMAAD | ADDRESS OF AREA |
| 228 | (E4) | SIGNED | 4 | LDASMSZ | SIZE OF AREA |
| 232 | (E8) | CHARACTER | 16 | LDAAALLOC | ALLOCATION VALUES |
| 232 | (E8) | UNSIGNED | 4 | LDALOAL | < 16M USER REGION ALLOC VALUE |
| 236 | (EC) | UNSIGNED | 4 | LDAHIAL | < 16M AUTH REGION ALLOC VALUE |
| 240 | (F0) | UNSIGNED | 4 | LDAELOAL | > 16M USER REGION ALLOC VALUE |
| 244 | (F4) | UNSIGNED | 4 | LDAEHIAL | > 16M AUTH REGION ALLOC VALUE |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|------------|---|
| Dec | Hex | | | | |
| 248 | (F8) | CHARACTER | 16 | LDASMF | LIMIT VALUES SET BY SMF |
| 248 | (F8) | UNSIGNED | 4 | LDASMFL | < 16M V=V SMF LDALIMIT VALUE |
| 252 | (FC) | UNSIGNED | 4 | LDASMFR | < 16M V=V SMF LDAVVRG VALUE |
| 256 | (100) | UNSIGNED | 4 | LDASM FEL | > 16M V=V SMF LDAELIM VALUE |
| 260 | (104) | UNSIGNED | 4 | LDASMFER | > 16M V=V SMF LDAEVVRG VALUE |
| 264 | (108) | CHARACTER | 24 | LDAEAN05 | SUBPOOL 205 QUEUE ANCHORS -- EXTENDED |
| 264 | (108) | ADDRESS | 4 | LDASQT05 | SUBPOOL 205 SQAT ADDRESS |
| 268 | (10C) | ADDRESS | 4 | LDAAQT05 | SUBPOOL 205 AQAT ADDRESS |
| 272 | (110) | CHARACTER | 16 | LDADFE05 | SUBPOOL 205 DFE QUEUE HEADER |
| 272 | (110) | ADDRESS | 4 | LDAADF05 | ADDRESS OF FIRST DFE ON THE ADDRESS QUEUE |
| 276 | (114) | ADDRESS | 4 | LDAADL05 | ADDRESS OF LAST DFE ON THE ADDRESS QUEUE |
| 280 | (118) | ADDRESS | 4 | LDASZF05 | ADDRESS OF FIRST DFE ON THE SIZE QUEUE |
| 284 | (11C) | ADDRESS | 4 | LDASZL05 | ADDRESS OF LAST DFE ON THE SIZE QUEUE |
| 288 | (120) | CHARACTER | 24 | LDAEAN15 | SUBPOOL 215 QUEUE ANCHORS -- EXTENDED |
| 288 | (120) | ADDRESS | 4 | LDASQT15 | SUBPOOL 215 SQAT ADDRESS |
| 292 | (124) | ADDRESS | 4 | LDAAQT15 | SUBPOOL 215 AQAT ADDRESS |
| 296 | (128) | CHARACTER | 16 | LDADFE15 | SUBPOOL 215 DFE QUEUE HEADER |
| 296 | (128) | ADDRESS | 4 | LDAADF15 | ADDRESS OF FIRST DFE ON THE ADDRESS QUEUE |
| 300 | (12C) | ADDRESS | 4 | LDAADL15 | ADDRESS OF LAST DFE ON THE ADDRESS QUEUE |
| 304 | (130) | ADDRESS | 4 | LDASZF15 | ADDRESS OF FIRST DFE ON THE SIZE QUEUE |
| 308 | (134) | ADDRESS | 4 | LDASZL15 | ADDRESS OF LAST DFE ON THE SIZE QUEUE |
| 312 | (138) | CHARACTER | 24 | LDAEAN25 | SUBPOOL 225 QUEUE ANCHORS -- EXTENDED |
| 312 | (138) | ADDRESS | 4 | LDASQT25 | SUBPOOL 225 SQAT ADDRESS |
| 316 | (13C) | ADDRESS | 4 | LDAAQT25 | SUBPOOL 225 AQAT ADDRESS |
| 320 | (140) | CHARACTER | 16 | LDADFE25 | SUBPOOL 225 DFE QUEUE HEADER |
| 320 | (140) | ADDRESS | 4 | LDAADF25 | ADDRESS OF FIRST DFE ON THE ADDRESS QUEUE |
| 324 | (144) | ADDRESS | 4 | LDAADL25 | ADDRESS OF LAST DFE ON THE ADDRESS QUEUE |
| 328 | (148) | ADDRESS | 4 | LDASZF25 | ADDRESS OF FIRST DFE ON THE SIZE QUEUE |
| 332 | (14C) | ADDRESS | 4 | LDASZL25 | ADDRESS OF LAST DFE ON THE SIZE QUEUE |
| 336 | (150) | ADDRESS | 4 | LDAA2GFA | Above 2G free area address |
| 340 | (154) | ADDRESS | 4 | LDAA2GAA | Above 2G alloc area address |
| 344 | (158) | CHARACTER | 8 | * | Reserved |
| 352 | (160) | CHARACTER | 0 | LDAEND | END OF LDA |

LDA Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|-----------|---------------|--------------|----------|---------------|--------------|
| LDA | 0 | | LDADFEQ | A0 | |
| LDAADF | C | | LDADFEQ | C | |
| LDAADF05 | 110 | | LDADFE05 | 110 | |
| LDAADF15 | 128 | | LDADFE15 | 128 | |
| LDAADF25 | 140 | | LDADFE25 | 140 | |
| LDAADL | 10 | | LDAEADF | 24 | |
| LDAADL05 | 114 | | LDAEADL | 28 | |
| LDAADL15 | 12C | | LDAEANC | 1C | |
| LDAADL25 | 144 | | LDAEAN05 | 108 | |
| LDAALLOC | E8 | | LDAEAN15 | 120 | |
| LDAAQAT | 8 | | LDAEAN25 | 138 | |
| LDAAQTAD | 94 | | LDAEAQAT | 20 | |
| LDAAQTST | A4 | | LDAEARD | 44 | |
| LDAAQT05 | 10C | | LDAEDFEQ | 24 | |
| LDAAQT15 | 124 | | LDAEFBAF | 44 | |
| LDAAQT25 | 13C | | LDAEFBAL | 48 | |
| LDAARD | 34 | | LDAEFBRF | 84 | |
| LDAASCB | B8 | | LDAEFBRL | 88 | |
| LDAA2GAA | 154 | | LDAEFBSF | 64 | |
| LDAA2GFA | 150 | | LDAEFBSL | 68 | |
| LDACPADR | A8 | | LDAEHIAL | F4 | |
| LDACPANC | A8 | | LDAELIM | D8 | |
| LDACPCNT | AC | | LDAELOAL | F0 | |
| LDACRGTP | 98 | | LDAEND | 160 | |
| LDADFEFED | C4 | 40 | LDAERGTP | 9C | |
| LDADFEFER | C4 | 80 | LDAERRD | 84 | |

LDA Cross Reference

| Name | Hex Offset | Hex Value |
|----------|---------------|--------------|
| LDAESIZA | 50 | |
| LDAESIZR | 90 | |
| LDAESIZS | 70 | |
| LDAESQAT | 1C | |
| LDAESRD | 64 | |
| LDAESTRA | 4C | |
| LDAESTRR | 8C | |
| LDAESTRS | 6C | |
| LDAESZF | 2C | |
| LDAESZL | 30 | |
| LDAEULIM | C8 | 20 |
| LDAEVVRG | DC | |
| LDAFBQAF | 34 | |
| LDAFBQAL | 38 | |
| LDAFBQRF | 74 | |
| LDAFBQRL | 78 | |
| LDAFBQSF | 54 | |
| LDAFBQSL | 58 | |
| LDAFCADR | B0 | |
| LDAFLGS | C4 | |
| LDAHIAL | EC | |
| LDAID | 0 | |
| LDALIMCL | C8 | 80 |
| LDALIMIT | D0 | |
| LDALOAL | E8 | |
| LDANONFM | E0 | |
| LDAPPD | BC | |
| LDAQANC | 4 | |
| LDAREGRQ | CC | |
| LDARRD | 74 | |
| LDASIZA | 40 | |
| LDASIZES | C8 | |
| LDASIZR | 80 | |
| LDASIZS | 60 | |
| LDASM | E0 | |
| LDASMAD | E0 | |
| LDASMF | F8 | |
| LDASMFEL | 100 | |
| LDASMFER | 104 | |
| LDASMFL | F8 | |
| LDASMFR | FC | |
| LDASMSZ | E4 | |
| LDASQAT | 4 | |
| LDASQT05 | 108 | |
| LDASQT15 | 120 | |
| LDASQT25 | 138 | |
| LDASRD | 54 | |
| LDASTRTA | 3C | |
| LDASTRTR | 7C | |
| LDASTRTS | 5C | |
| LDASZF | 14 | |
| LDASZF05 | 118 | |
| LDASZF15 | 130 | |
| LDASZF25 | 148 | |
| LDASZL | 18 | |
| LDASZL05 | 11C | |
| LDASZL15 | 134 | |
| LDASZL25 | 14C | |
| LDAUFLGS | C8 | |
| LDAULIM | C8 | 40 |
| LDAVVRG | D4 | |
| LDAWRKA | B4 | |

LGE Heading Information

Common Name: Logical Group Entry
Macro ID: ILRLGE
DSECT Name: LGE
Owning Component: Auxiliary Storage Manager (SC1CW)
Eye-Catcher ID: None
Storage Attributes: Virtual Storage: YES
 Subpool: 245
 Key: 0
 Data Space: NO
 Residency: Above 16 Megabytes virtual
Size: 24 Bytes
Created by: ILRGOS
Pointed to by: ASHLGEQ field of the ASMHD data area
 LGENEXT field of the LGE data area
 LGVELGEP field of the LGVTE data area
 ASPLGE field of the ASPCT data area
 ACELGE field of the ACE data area
 AIALGE field of the AIA data area
Serialization: The ASM class lock of the owning address space
 is used to serialize the LGE.
Function: ASM's focal point for controlling all operations of
 a logical group.

LGE Map

| Offsets | | | | | |
|---------|------|------------|-----|------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 32 | LGE | Logical Group Element |
| 0 | (0) | CHARACTER | 8 | LGEPROCQ | The LGE process queue. This is a double-threaded queue containing AIAs or ACEs for all operations started or pending execution for the logical group |
| 0 | (0) | ADDRESS | 4 | LGEPROCF | Address of first AIA/ACE on process queue |
| 4 | (4) | ADDRESS | 4 | LGEPROCL | Address of last AIA/ACE on process queue |
| 8 | (8) | BITSTRING | 1 | LGEFLAG1 | LGE flag field |
| | | 1... | | LGEWRKPD | Work pending flag. 1 = At least one requested operation is pending execution, 0 = No operations are pending |
| | | .1.. | | LGEGRINP | Group operation in progress flag. 1 = Group operation in progress, 0 = Group operation not in progress |
| | | ..1. | | LGERELLG | Release LG requested. 1 = Release LG has been requested, reject all future requests to LG, 0 = Release LG has not been requested. |
| | | ...1 | | LGESAVRQ | Save request queued. 1 = Save LG/LGN or save LG (if LGERELLG=1) request has been queued for LG, 0 = No save requests queued. |
| | | 1... | | * | Reserved |
| | |1.. | | LGEPGDEL | PAGEDEL in process flag. 1 = PAGEDEL is processing this logical group, 0 = PAGEDEL not processing this logical group. |
| | |1. | | LGENOSAV | No saved copy flag. 1 = ASPCT saved copy was erased due to an error in PAGEDEL processing |
| | |1 | | LGERSV5 | Reserved |
| 9 | (9) | CHARACTER | 1 | * | Reserved |
| 10 | (A) | CHARACTER | 2 | * | Reserved |
| 12 | (C) | ADDRESS | 4 | LGEASPCT | Address of ASPCT for this logical group |
| 16 | (10) | ADDRESS | 4 | LGENEXT | Address of next LGE on process queue |
| 20 | (14) | SIGNED | 4 | LGELGID | Logical group identifier for this LGE |

LGE Cross Reference

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|---|
| Dec | Hex | | | | |
| 24 | (18) | SIGNED | 4 | LGESLTCT | Number of slots assigned to this address space or freed during group operation processing |
| 28 | (1C) | CHARACTER | 4 | * | Reserved |
| 32 | (20) | CHARACTER | 0 | * | |

LGE Cross Reference

| Name | Hex Offset | Hex Value |
|----------|------------|-----------|
| LGE | 0 | |
| LGEASPCT | C | |
| LGEFLAG1 | 8 | |
| LGEGRINP | 8 | 40 |
| LGELGID | 14 | |
| LGENEXT | 10 | |
| LGENOSAV | 8 | 02 |
| LGEPGDEL | 8 | 04 |
| LGEPROCF | 0 | |
| LGEPROCL | 4 | |
| LGEPROCQ | 0 | |
| LGERELLG | 8 | 20 |
| LGERSV5 | 8 | 01 |
| LGESAVRQ | 8 | 10 |
| LGESLTCT | 18 | |
| LGEWRKPD | 8 | 80 |

LGVT Heading Information

Common Name: ASM Logical Group Vector Table
Macro ID: ILRLGVT
DSECT Name: LGVT
Owning Component: Auxiliary Storage Manager (SC1CW)
Eye-Catcher ID: LGVT
 Offset: 0
 Length: 4
Storage Attributes: Virtual Storage: YES
 Subpool: 245
 Key: 0
 Data Space: NO
 Residency: Above 16 Megabytes virtual
Size: Variable because of extensions
Created by: ILRASRIM
Pointed to by: ASMLGVT field of the ASMT data area
 LGVLGVEP field of the LGVT data area
 (points to an LGVTE)
 LGVENEXT field of the LGVTE data area
 (points to an LGVTE)
Serialization: The ASMT lock is used to serialize the available LGVTE queue,
 LGVTE's, and the expansion of the LGVT.
Function: LGVT is a collection of information about logical
 groups for use by ASM. It contains the address of
 the LGE for the logical group and the address of the
 ASCB for the address space owning the logical group.

LGVT Map

| Offsets | | | | | |
|---------|------|------------|-----|--------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | * | LGVT | Logical Group Vector Table |
| 0 | (0) | CHARACTER | 4 | LGVIDENT | Control block identifier, always set to C'LGVT' |
| 4 | (4) | ADDRESS | 4 | LGVLGVEP | Pointer to first available LGVTE |
| 8 | (8) | SIGNED | 4 | LGVMAXLG | Highest LGN supported by current size of LGVT |
| 12 | (C) | SIGNED | 4 | LGVSZ | Current size of LGVT in bytes |
| 16 | (10) | SIGNED | 4 | LGVSZCT | Count of LGVTEs currently in use |
| 20 | (14) | CHARACTER | 16 | * | Reserved |
| 36 | (24) | CHARACTER | 12 | LGVENTRS (*) | LGVT entries |

| Offsets | | | | | |
|---------|-----|------------|-----|------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 12 | LGVTE | Logical Group Vector Table entry |
| 0 | (0) | CHARACTER | 12 | LGVLGVEP | LGVTE. The number of contiguous LGVTEs is specified by the LGVMAXLG field. |
| 0 | (0) | BITSTRING | 1 | LGVEFLGS | LGVTE flags. |
| | | 1... | | LGVEUSE | LGVTE in use flag. |
| | | .1.. | | LGVENCVT | LGVTE no-convert flag. If on, this LG was ASSIGNED after PAGEDEL data sets were made read-only, so it cannot contain migrated pages. |
| | | ..11 1111 | | * | Reserved |
| 1 | (1) | CHARACTER | 3 | LGVERSVD | Reserved |
| 4 | (4) | ADDRESS | 4 | LGVELGEP | Address of LGE for this LG |
| 4 | (4) | ADDRESS | 4 | LGVENEXT | Address of next available LGVTE if this LGVTE is available |
| 8 | (8) | ADDRESS | 4 | LGVEASCB | Address of ASCB to which logical group is assigned |

LGVT Cross Reference

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|------------|--|
| Dec | Hex | | | | |
| 8 | (8) | SIGNED | 4 | LGVELGID | If this LGVTE is available, the LGN of the logical group this LGVTE represents |

LGVT Cross Reference

| Name | Hex Offset | Hex Value |
|----------|---------------|--------------|
| LGVEASCB | 8 | |
| LGVEFLGS | 0 | |
| LGVELGEP | 4 | |
| LGVELGID | 8 | |
| LGVENCVT | 0 | 40 |
| LGVENEXT | 4 | |
| LGVENTRS | 24 | |
| LGVERSVD | 1 | |
| LGVEUSE | 0 | 80 |
| LGVIDENT | 0 | |
| LGVLGVEP | 4 | |
| LGVLGVTE | 0 | |
| LGVMAXLG | 8 | |
| LGVSIZ | C | |
| LGVT | 0 | |
| LGVTE | 0 | |
| LGVUSECT | 10 | |

LKPT Heading Information

Common Name: LOCK MANAGER PARMAMETER LIST TABLE
Macro ID: IHALKPT
DSECT Name: N/A
Owning Component: SC1C5 (SUPERVISOR CONTROL)
Eye-Catcher ID: N/A
 Offset: N/A
 Length: N/A
Storage Attributes: Main Storage: N/A
 Virtual Storage: N/A
 Auxiliary Storage: N/A
 Subpool: N/A
 Key: N/A
 Data Space: N/A
 Residency: N/A
Size: N/A
Created by: IEAVELIT - THE LOCK INTERFACE TABLE
Pointed to by: N/A
Serialization: N/A
Function: N/A

LKPT Map

| Offsets | | | | | |
|---------|------|------------|-----|------------|--------------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 400 | LKPT | SETLOCK'S PARAMETER LIST |
| 0 | (0) | CHARACTER | 16 | LKPTDISP | DISPATCHER LOCK |
| 0 | (0) | SIGNED | 4 | LKPTDSPC | CLHT OFFSET |
| 4 | (4) | UNSIGNED | 4 | LKPTDSPO | OBTAIN MASK |
| 8 | (8) | UNSIGNED | 4 | LKPTDSPH | HIERARCHY MASK |
| 12 | (C) | UNSIGNED | 4 | LKPTDSPR | RELEASE MASK |
| 16 | (10) | CHARACTER | 16 | LKPTUCB | IOSUCB LOCK |
| 16 | (10) | SIGNED | 4 | LKPTUCBC | CLHT OFFSET |
| 20 | (14) | UNSIGNED | 4 | LKPTUCBO | OBTAIN MASK |
| 24 | (18) | UNSIGNED | 4 | LKPTUCBH | HIERARCHY MASK |
| 28 | (1C) | UNSIGNED | 4 | LKPTUCBR | RELEASE MASK |
| 32 | (20) | CHARACTER | 16 | LKPTSYN | IOSYNCH LOCK |
| 32 | (20) | SIGNED | 4 | LKPTSYNC | CLHT OFFSET |
| 36 | (24) | UNSIGNED | 4 | LKPTSYNO | OBTAIN MASK |
| 40 | (28) | UNSIGNED | 4 | LKPTSYNH | HIERARCHY MASK |
| 44 | (2C) | UNSIGNED | 4 | LKPTSYNR | RELEASE MASK |
| 48 | (30) | CHARACTER | 16 | LKPTNCB | TPNCB LOCK |
| 48 | (30) | SIGNED | 4 | LKPTNCBC | CLHT OFFSET |
| 52 | (34) | UNSIGNED | 4 | LKPTNCBO | OBTAIN MASK |
| 56 | (38) | UNSIGNED | 4 | LKPTNCBH | HIERARCHY MASK |
| 60 | (3C) | UNSIGNED | 4 | LKPTNCBR | RELEASE MASK |
| 64 | (40) | CHARACTER | 16 | LKPTDNC | TPDNCB LOCK |
| 64 | (40) | SIGNED | 4 | LKPTDNCC | CLHT OFFSET |
| 68 | (44) | UNSIGNED | 4 | LKPTDNCO | OBTAIN MASK |
| 72 | (48) | UNSIGNED | 4 | LKPTDNCH | HIERARCHY MASK |
| 76 | (4C) | UNSIGNED | 4 | LKPTDNCR | RELEASE MASK |
| 80 | (50) | CHARACTER | 16 | LKPTACB | TPACBDEB LOCK |
| 80 | (50) | SIGNED | 4 | LKPTACBC | CLHT OFFSET |
| 84 | (54) | UNSIGNED | 4 | LKPTACBO | OBTAIN MASK |
| 88 | (58) | UNSIGNED | 4 | LKPTACBH | HIERARCHY MASK |
| 92 | (5C) | UNSIGNED | 4 | LKPTACBR | RELEASE MASK |
| 96 | (60) | CHARACTER | 16 | LKPTASM | ASM LOCK |
| 96 | (60) | SIGNED | 4 | LKPTASMC | CLHT OFFSET |

LKPT Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|------------|----------------|
| Dec | Hex | | | | |
| 100 | (64) | UNSIGNED | 4 | LKPTASMO | OBTAIN MASK |
| 104 | (68) | UNSIGNED | 4 | LKPTASMH | HIERARCHY MASK |
| 108 | (6C) | UNSIGNED | 4 | LKPTASMR | RELEASE MASK |
| 112 | (70) | CHARACTER | 16 | LKPTSALL | SALLOC LOCK |
| 112 | (70) | SIGNED | 4 | LKPTSALC | CLHT OFFSET |
| 116 | (74) | UNSIGNED | 4 | LKPTSALO | OBTAIN MASK |
| 120 | (78) | UNSIGNED | 4 | LKPTSALH | HIERARCHY MASK |
| 124 | (7C) | UNSIGNED | 4 | LKPTSALR | RELEASE MASK |
| 128 | (80) | CHARACTER | 16 | LKPTSRM | SRM LOCK |
| 128 | (80) | SIGNED | 4 | LKPTSRMC | CLHT OFFSET |
| 132 | (84) | UNSIGNED | 4 | LKPTSRMO | OBTAIN MASK |
| 136 | (88) | UNSIGNED | 4 | LKPTSRMH | HIERARCHY MASK |
| 140 | (8C) | UNSIGNED | 4 | LKPTSRMR | RELEASE MASK |
| 144 | (90) | CHARACTER | 16 | LKPTLOCL | LOCAL LOCK |
| 144 | (90) | SIGNED | 4 | LKPTLCLC | CLHT OFFSET |
| 148 | (94) | UNSIGNED | 4 | LKPTLCLO | OBTAIN MASK |
| 152 | (98) | UNSIGNED | 4 | LKPTLCLH | HIERARCHY MASK |
| 156 | (9C) | UNSIGNED | 4 | LKPTLCLR | RELEASE MASK |
| 160 | (A0) | CHARACTER | 16 | LKPTCML | CML LOCK |
| 160 | (A0) | SIGNED | 4 | LKPTCMLC | CLHT OFFSET |
| 164 | (A4) | UNSIGNED | 4 | LKPTCMLO | OBTAIN MASK |
| 168 | (A8) | UNSIGNED | 4 | LKPTCMLH | HIERARCHY MASK |
| 172 | (AC) | UNSIGNED | 4 | LKPTCMLR | RELEASE MASK |
| 176 | (B0) | CHARACTER | 16 | LKPTCMS | CMS LOCK |
| 176 | (B0) | SIGNED | 4 | LKPTCMSC | CLHT OFFSET |
| 180 | (B4) | UNSIGNED | 4 | LKPTCMSO | OBTAIN MASK |
| 184 | (B8) | UNSIGNED | 4 | LKPTCMSH | HIERARCHY MASK |
| 188 | (BC) | UNSIGNED | 4 | LKPTCMSR | RELEASE MASK |
| 192 | (C0) | CHARACTER | 16 | LKPTRACE | TRACE LOCK |
| 192 | (C0) | SIGNED | 4 | LKPTRCEC | CLHT OFFSET |
| 196 | (C4) | UNSIGNED | 4 | LKPTRCEO | OBTAIN MASK |
| 200 | (C8) | UNSIGNED | 4 | LKPTRCEH | HIERARCHY MASK |
| 204 | (CC) | UNSIGNED | 4 | LKPTRCER | RELEASE MASK |
| 208 | (D0) | CHARACTER | 16 | LKPTVPAG | VSMPAG LOCK |
| 208 | (D0) | SIGNED | 4 | LKPTVSPC | CLHT OFFSET |
| 212 | (D4) | UNSIGNED | 4 | LKPTVSPO | OBTAIN MASK |
| 216 | (D8) | UNSIGNED | 4 | LKPTVSPH | HIERARCHY MASK |
| 220 | (DC) | UNSIGNED | 4 | LKPTVSPR | RELEASE MASK |
| 224 | (E0) | CHARACTER | 16 | LKPTRSM | RSM LOCK |
| 224 | (E0) | SIGNED | 4 | LKPTRSMC | CLHT OFFSET |
| 228 | (E4) | UNSIGNED | 4 | LKPTRSMO | OBTAIN MASK |
| 232 | (E8) | UNSIGNED | 4 | LKPTRSMH | HIERARCHY MASK |
| 236 | (EC) | UNSIGNED | 4 | LKPTRSMR | RELEASE MASK |
| 240 | (F0) | CHARACTER | 16 | LKPTRSMA | RSMAD LOCK |
| 240 | (F0) | SIGNED | 4 | LKPTRADC | CLHT OFFSET |
| 244 | (F4) | UNSIGNED | 4 | LKPTRADO | OBTAIN MASK |
| 248 | (F8) | UNSIGNED | 4 | LKPTRADH | HIERARCHY MASK |
| 252 | (FC) | UNSIGNED | 4 | LKPTRADR | RELEASE MASK |
| 256 | (100) | CHARACTER | 16 | LKPTRSMX | RSMXM LOCK |
| 256 | (100) | SIGNED | 4 | LKPTRXMC | CLHT OFFSET |
| 260 | (104) | UNSIGNED | 4 | LKPTRXMO | OBTAIN MASK |
| 264 | (108) | UNSIGNED | 4 | LKPTRXMH | HIERARCHY MASK |
| 268 | (10C) | UNSIGNED | 4 | LKPTRXMR | RELEASE MASK |
| 272 | (110) | CHARACTER | 16 | LKPTRSMS | RSMST LOCK |
| 272 | (110) | SIGNED | 4 | LKPTRSTC | CLHT OFFSET |
| 276 | (114) | UNSIGNED | 4 | LKPTRSTO | OBTAIN MASK |
| 280 | (118) | UNSIGNED | 4 | LKPTRSTH | HIERARCHY MASK |
| 284 | (11C) | UNSIGNED | 4 | LKPTRSTR | RELEASE MASK |
| 288 | (120) | CHARACTER | 16 | LKPTASMG | ASMGL LOCK |
| 288 | (120) | SIGNED | 4 | LKPTASGC | CLHT OFFSET |
| 292 | (124) | UNSIGNED | 4 | LKPTASGO | OBTAIN MASK |
| 296 | (128) | UNSIGNED | 4 | LKPTASGH | HIERARCHY MASK |
| 300 | (12C) | UNSIGNED | 4 | LKPTASGR | RELEASE MASK |
| 304 | (130) | CHARACTER | 16 | LKPTVFIX | VSMFIX LOCK |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|------------|----------------|
| Dec | Hex | | | | |
| 304 | (130) | SIGNED | 4 | LKPTVSFC | CLHT OFFSET |
| 308 | (134) | UNSIGNED | 4 | LKPTVSFO | OBTAIN MASK |
| 312 | (138) | UNSIGNED | 4 | LKPTVSFH | HIERARCHY MASK |
| 316 | (13C) | UNSIGNED | 4 | LKPTVSFR | RELEASE MASK |
| 320 | (140) | CHARACTER | 16 | LKPTRSMG | RSMGL LOCK |
| 320 | (140) | SIGNED | 4 | LKPTRGLC | CLHT OFFSET |
| 324 | (144) | UNSIGNED | 4 | LKPTRGLO | OBTAIN MASK |
| 328 | (148) | UNSIGNED | 4 | LKPTRGLH | HIERARCHY MASK |
| 332 | (14C) | UNSIGNED | 4 | LKPTRGLR | RELEASE MASK |
| 336 | (150) | CHARACTER | 16 | LKPTCPU | CPU LOCK |
| 336 | (150) | SIGNED | 4 | LKPTCPUC | CLHT OFFSET |
| 340 | (154) | UNSIGNED | 4 | LKPTCPUO | OBTAIN MASK |
| 344 | (158) | UNSIGNED | 4 | LKPTCPUH | HIERARCHY MASK |
| 348 | (15C) | UNSIGNED | 4 | LKPTCPUR | RELEASE MASK |
| 352 | (160) | CHARACTER | 16 | LKPTRCM | RSMCM LOCK |
| 352 | (160) | SIGNED | 4 | LKPTRCMC | CLHT OFFSET |
| 356 | (164) | UNSIGNED | 4 | LKPTRCMO | OBTAIN MASK |
| 360 | (168) | UNSIGNED | 4 | LKPTRCMH | HIERARCHY MASK |
| 364 | (16C) | UNSIGNED | 4 | LKPTRCMR | RELEASE MASK |
| 368 | (170) | CHARACTER | 16 | LKPTRSMO | RSMDS LOCK |
| 368 | (170) | SIGNED | 4 | LKPTRDSC | CLHT OFFSET |
| 372 | (174) | UNSIGNED | 4 | LKPTRDSO | OBTAIN MASK |
| 376 | (178) | UNSIGNED | 4 | LKPTRDSH | HIERARCHY MASK |
| 380 | (17C) | UNSIGNED | 4 | LKPTRDSR | RELEASE MASK |
| 384 | (180) | CHARACTER | 16 | LKPTIOS | IOS LOCK |
| 384 | (180) | SIGNED | 4 | LKPTIOSC | CLHT OFFSET |
| 388 | (184) | UNSIGNED | 4 | LKPTIOSO | OBTAIN MASK |
| 392 | (188) | UNSIGNED | 4 | LKPTIOSH | HIERARCHY MASK |
| 396 | (18C) | UNSIGNED | 4 | LKPTIOSR | RELEASE MASK |

LKPT Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| LKPT | 0 | | LKPTCPUR | 15C | |
| LKPTACB | 50 | | LKPTDISP | 0 | |
| LKPTACBC | 50 | | LKPTDNC | 40 | |
| LKPTACBH | 58 | | LKPTDNCC | 40 | |
| LKPTACBO | 54 | | LKPTDNCH | 48 | |
| LKPTACBR | 5C | | LKPTDNCO | 44 | |
| LKPTASGC | 120 | | LKPTDNCR | 4C | |
| LKPTASGH | 128 | | LKPTDSPC | 0 | |
| LKPTASGO | 124 | | LKPTDSPH | 8 | |
| LKPTASGR | 12C | | LKPTDSPO | 4 | |
| LKPTASM | 60 | | LKPTDSPR | C | |
| LKPTASMC | 60 | | LKPTIOS | 180 | |
| LKPTASMG | 120 | | LKPTIOSC | 180 | |
| LKPTASMH | 68 | | LKPTIOSH | 188 | |
| LKPTASMO | 64 | | LKPTIOSO | 184 | |
| LKPTASMR | 6C | | LKPTIOSR | 18C | |
| LKPTCML | A0 | | LKPTLCLC | 90 | |
| LKPTCMLC | A0 | | LKPTLCLH | 98 | |
| LKPTCMLH | A8 | | LKPTLCLO | 94 | |
| LKPTCMLO | A4 | | LKPTLCLR | 9C | |
| LKPTCMLR | AC | | LKPTLOCL | 90 | |
| LKPTCMS | B0 | | LKPTNCB | 30 | |
| LKPTCMSC | B0 | | LKPTNCBC | 30 | |
| LKPTCMSH | B8 | | LKPTNCBH | 38 | |
| LKPTCMSO | B4 | | LKPTNCBO | 34 | |
| LKPTCMSR | BC | | LKPTNCBR | 3C | |
| LKPTCPU | 150 | | LKPTRACE | C0 | |
| LKPTCPUC | 150 | | LKPTRADC | F0 | |
| LKPTCPUH | 158 | | LKPTRADH | F8 | |
| LKPTCPUO | 154 | | LKPTRADO | F4 | |

LKPT Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------|---------------|--------------|----------|---------------|--------------|
| LKPTRADR | FC | | LKPTVSPR | DC | |
| LKPTRCEC | C0 | | | | |
| LKPTRCEH | C8 | | | | |
| LKPTRCEO | C4 | | | | |
| LKPTRCER | CC | | | | |
| LKPTRCM | 160 | | | | |
| LKPTRCMC | 160 | | | | |
| LKPTRCMH | 168 | | | | |
| LKPTRCMO | 164 | | | | |
| LKPTRCMR | 16C | | | | |
| LKPTRDSC | 170 | | | | |
| LKPTRDSH | 178 | | | | |
| LKPTRDSO | 174 | | | | |
| LKPTRDSR | 17C | | | | |
| LKPTRGLC | 140 | | | | |
| LKPTRGLH | 148 | | | | |
| LKPTRGLO | 144 | | | | |
| LKPTRGLR | 14C | | | | |
| LKPTRSM | E0 | | | | |
| LKPTRSMA | F0 | | | | |
| LKPTRSMC | E0 | | | | |
| LKPTRSMD | 170 | | | | |
| LKPTRSMG | 140 | | | | |
| LKPTRSMH | E8 | | | | |
| LKPTRSMO | E4 | | | | |
| LKPTRSMR | EC | | | | |
| LKPTRSMS | 110 | | | | |
| LKPTRSMX | 100 | | | | |
| LKPTRSTC | 110 | | | | |
| LKPTRSTH | 118 | | | | |
| LKPTRSTO | 114 | | | | |
| LKPTRSTR | 11C | | | | |
| LKPTRXMC | 100 | | | | |
| LKPTRXMH | 108 | | | | |
| LKPTRXMO | 104 | | | | |
| LKPTRXMR | 10C | | | | |
| LKPTSALC | 70 | | | | |
| LKPTSALH | 78 | | | | |
| LKPTSALL | 70 | | | | |
| LKPTSALO | 74 | | | | |
| LKPTSALR | 7C | | | | |
| LKPTSRM | 80 | | | | |
| LKPTSRMC | 80 | | | | |
| LKPTSRMH | 88 | | | | |
| LKPTSRMO | 84 | | | | |
| LKPTSRMR | 8C | | | | |
| LKPTSYN | 20 | | | | |
| LKPTSYNC | 20 | | | | |
| LKPTSYNH | 28 | | | | |
| LKPTSYNO | 24 | | | | |
| LKPTSYNR | 2C | | | | |
| LKPTUCB | 10 | | | | |
| LKPTUCBC | 10 | | | | |
| LKPTUCBH | 18 | | | | |
| LKPTUCBO | 14 | | | | |
| LKPTUCBR | 1C | | | | |
| LKPTVFIX | 130 | | | | |
| LKPTVPAG | D0 | | | | |
| LKPTVSFC | 130 | | | | |
| LKPTVSFH | 138 | | | | |
| LKPTVSFO | 134 | | | | |
| LKPTVSFR | 13C | | | | |
| LKPTVSPC | D0 | | | | |
| LKPTVSPH | D8 | | | | |
| LKPTVSPO | D4 | | | | |

LLCB Heading Information

Common Name: LNKLST Lookaside Control Block
Macro ID: IHALLCB
DSECT Name: LLCB
Owning Component: Contents Supervisor (SC1CJ)
Eye-Catcher ID: LLCB
 Offset: 0
 Length: 4
Storage Attributes: Subpool: read/write nucleus
 Key: 0
 Residency: Above 16M
Size: 44 bytes
Created by: nucleus
Pointed to by: CVTLLCB of the CVT data area
Serialization: None
Function: The LLCB contains data needed by the Library Lookaside search routines, by their callers and by LLA routines in the LLA Address Space.

LLCB Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 44 | LLCB | Library Lookaside Control Block |
| 0 | (0) | CHARACTER | 4 | LLCBID | Control block ID ("LLCB") |
| 4 | (4) | UNSIGNED | 1 | LLCBLVEL | Level number of this LLCB |
| 5 | (5) | UNSIGNED | 1 | LLCBFLGS | Flag byte |
| | | 1... .. | | LLCBAVAL | The LLA search services are available. LLCBAVAL is turned on by LLA directory build to activate a new directory. It is initially off, and LLA turns it off when it terminates. LLA's recovery exit CSVLESCH and BLDL's ESTAE IGCT0018 turn off LLCBAVAL if serious errors occur in the LLA search service. |
| | | .1.. .. | | LLCBSTOP | LLA was terminated by the operator. This flag inhibits automatic re-START processing. |
| | | ..1. | | LLCBFAIL | LLA's memory termination resource manager turns on LLCBFAIL when it issues an internal START command to automatically re-START LLA. LLA turns off LLCBFAIL when it completes building a new directory. LLA's memory termination resource manager turns off LLCBFAIL if the re-START fails. |
| | | ...1 | | LLCBX1OK | CSVLLIX1 can be called |
| | | 1... | | LLCBTLNK | The LNKLST concatenation was truncated when it was opened during NIP processing. CSVLLCRE re-informs the operator and turns off this flag. |
| | |1.. | | LLCBTLPA | The LPALST concatenation was truncated when it was opened during NIP processing. CSVLLCRE re-informs the operator and turns off this flag. |
| | |1. | | LLCBLNKL | LLA is managing entire LNKLST |
| | |1 | | LLCBRSV2 | Reserved |
| 6 | (6) | CHARACTER | 2 | LLCBRSV3 | Reserved. |
| 8 | (8) | UNSIGNED | 4 | LLCBRSCD | Component reason code. Copied from SDWAHRC if SDWARCF is on. Valid only if LLCBRISOK is on. Serialized by LLCBRISOK. |
| 12 | (C) | ADDRESS | 4 | LLCBASCB | Address of the ASCB of the LLA address space. Used to denote ownership of the LLCB and to abnormally terminate LLA if there is an error while accessing the LLA directory from another address space. |

LLCB Cross Reference

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------------------|-----|---------------|--|
| Dec | Hex | | | | |
| 16 | (10) | ADDRESS | 4 | LLCBTCB | Address of TCB of LLA's jobstep task. Used to abnormally terminate LLA if an error occurs during LLA's directory search processing. |
| 20 | (14) | ADDRESS | 4 | * | Reserved HBB3310, replaces LLCBHSHV. |
| 24 | (18) | UNSIGNED | 4 | * | Reserved HBB3310, replaces LLCBHSHV. |
| 28 | (1C) | ADDRESS | 4 | LLCBNXT1 | Address of instruction after the MVCK instruction which stores data from the LLA directory into the user's parameter list. Used to determine whether program checks in CSVLLS01 are due to invalid user parameters passed in to BLDL |
| 32 | (20) | CHARACTER | 4 | LLCBDOM | WTO id used to delete LLA's error messages (CSV218E or CSV226E) from the operator's screen. |
| 36 | (24) | CHARACTER | 4 | LLCBABCC | Abend completion code copied from SDWAABCC or ASCBMCC. |
| 36 | (24) | CHARACTER 1111 1... | 1 | LLCBCMPF * | Flags in completion code |
| | |1.. | | LLCBRSOK * | LLCBRSCD is valid |
| | |11 | | | |
| 37 | (25) | CHARACTER | 3 | LLCBCMPC | System completion code (1st 12 bits) and user completion code (2nd 12 bits). |
| 40 | (28) | CHARACTER | 2 | LLCBXXLN | Suffix of the "LNKLSTnn" parmliib member being processed when NIP truncated the LNKLST. LLCBTLNK is also turned on. |
| 42 | (2A) | CHARACTER | 2 | LLCBXXLP | Suffix of the "LPALSTnn" parmliib member being processed when NIP truncated the LPALST. LLCBTLNK is also turned on. |
| 44 | (2C) | CHARACTER | 0 | LLCBEND | End+1 of LLCB. |

LLCB Cross Reference

| Name | Hex Offset | Hex Value |
|----------|------------|-----------|
| LLCB | 0 | |
| LLCBABCC | 24 | |
| LLCBASCB | C | |
| LLCBAVAL | 5 | 80 |
| LLCBCMPC | 25 | |
| LLCBCMPF | 24 | |
| LLCBDOM | 20 | |
| LLCBEND | 2C | |
| LLCBFAIL | 5 | 20 |
| LLCBFLGS | 5 | |
| LLCBID | 0 | |
| LLCBLNKL | 5 | 02 |
| LLCBLVEL | 4 | |
| LLCBNXT1 | 1C | |
| LLCBRSCD | 8 | |
| LLCBRSOK | 24 | 04 |
| LLCBRSV2 | 5 | 01 |
| LLCBRSV3 | 6 | |
| LLCBSTOP | 5 | 40 |
| LLCBTCB | 10 | |
| LLCBTLNK | 5 | 08 |
| LLCBTLPA | 5 | 04 |
| LLCBXXLN | 28 | |
| LLCBXXLP | 2A | |
| LLCBX1OK | 5 | 10 |

LLE Programming Interface information

Programming Interface information

LLE

End of Programming Interface information

LLE Heading Information

Common Name: Load List Element
Macro ID: IHALLE
DSECT Name: LLE
Owning Component: Contents Supervisor (SC1CJ)
Eye-Catcher ID: None
Storage Attributes: Subpool: 255
 Key: 0
Size: 12 bytes
Created by: Contents Supervisor (CSVSBRTN)
Pointed to by: TCBLLS field of the TCB data area (last LLE)
 LLECHN field of the LLE data area (next LLE)
Serialization: Local Lock
Function: An LLE controls the loading and deleting
 (specifically, the LOAD and DELETE functions of
 Contents Supervision) of a particular load module on
 an entry point name basis.

LLE Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | LLE | |
| 0 | (0) | SIGNED | 4 | LLECHN | - ADDRESS OF NEXT ELEMENT ON LOAD LIST |
| 4 | (4) | SIGNED | 4 | LLECDPT | - ADDRESS OF CDE FOR MODULE |
| 8 | (8) | SIGNED | 2 | LLECOUNT | - RESPONSIBILITY COUNT. THE TOTAL NUMBER OF REQUESTS FOR THE MODULE VIA THE LOAD MACRO INSTRUCTION. |
| 10 | (A) | SIGNED | 2 | LLESYSCT | - SYSTEM RESPONSIBILITY COUNT. THE TOTAL NUMBER OF SYSTEM REQUESTS FOR THE MDOULE VIA THE LOAD MACRO INSTRUCTION. |

LLPM Heading Information

Common Name: LNKLST Lookaside Parameter List
Macro ID: IHALLPM
DSECT Name: LLPM
Owning Component: Contents Supervisor (SC1CJ)
Eye-Catcher ID: None
Size: 20 bytes
Function: The LLPM is passed in to the LLA search service routine, CSVLLSCH. It contains parameters and a work area for CSVLLSCH.

LLPM Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 20 | LLPM | LLA data access parameter list. |
| 0 | (0) | ADDRESS | 4 | LLPMPDS2 | Target area address for requested directory entry. (either PDS2 or SMDE) |
| 4 | (4) | SIGNED | 4 | LLPMCOP | Bytes to copy (excludes length of name). |
| 8 | (8) | SIGNED | 4 | LLPMWORK | Work area for LLA |
| 12 | (C) | CHARACTER | 1 | LLPMKEY | For authorized callers, bits 0-3 contain the storage key for LLA to use when copying the directory entry into the BLDL list (LLPMPDS2). |
| 13 | (D) | UNSIGNED | 1 | LLPMLVL | Level number of LLPM |
| 14 | (E) | BITSTRING | 1 | LLPMFLAG | Flags |
| | | 1... | | LLPMPDSE | Indicates module in PDSE format library. |
| | | .1... | | LLPMBUFF | Indicates the module has been buffered. (Used by DFP) |
| | | ..11 1111 | | * | Reserved |
| 15 | (F) | CHARACTER | 1 | * | Reserved |
| 16 | (10) | ADDRESS | 4 | LLPMLLPX | Address of extended LLA parameters. |
| 20 | (14) | CHARACTER | 0 | LLPMEND | End+1 of LLPM. |

LLPM Constants

| Len | Type | Value | Name | Description |
|-----|---------|-------|---------|-----------------------------------|
| 1 | DECIMAL | 3 | LLPMNUM | Current Level number for LLPMLVL. |

LLPM Cross Reference

| Name | Hex Offset | Hex Value |
|----------|------------|-----------|
| LLPM | 0 | |
| LLPMBUFF | E | 40 |
| LLPMCOP | 4 | |
| LLPMEND | 14 | |
| LLPMFLAG | E | |
| LLPMKEY | C | |
| LLPMLLPX | 10 | |
| LLPMLVL | D | |
| LLPMPDSE | E | 80 |
| LLPMPDS2 | 0 | |
| LLPMWORK | 8 | |

LLP1 Programming Interface Information

| | | |
|--|--|--|
| | Programming Interface Information | |
| | <u>LLP1</u> | |
| | End of Programming Interface Information | |

LLP1 Heading Information

Common Name: Library Lookaside Fetch Installation Exit Parameter List
Macro ID: IHALLP1
DSECT Name: LLP1
Owning Component: SC1CJ (Contents Supervisor)
Eye-Catcher ID:
Offset: Offset 0 and length 4
Subpool and Key: LLA Fetch's dynamic storage and key 0
Size: 152 bytes
Created by: LLA Fetch
Pointed to by: Register 1 on entry to CSVLLIX1
Serialization: None
Function: LLA fetch passes the LLP1 to its installation exit CSVLLIX1. LLA fetch calls CSVLLIX1 after fetching an LLA managed module. The LLP1 contains statistics and a copy of the BLDL format PDS directory entry of the just completed fetch request.

LLP1 Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|--------------------------|------|------------|-----|------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | LLP1 | LLA Fetch exit parameter list. |
| -----Header----- | | | | | |
| -----End of Comment----- | | | | | |
| 0 | (0) | CHARACTER | 4 | LLP1ID | LLP1 id = "LLP1". |
| 4 | (4) | SIGNED | 1 | LLP1LEVL | LLP1 level number = 2. |
| 5 | (5) | CHARACTER | 1 | LLP1RSV1 | Reserved. |
| 6 | (6) | SIGNED | 2 | LLP1LEN | Length of the LLP1. |
| -----Body----- | | | | | |
| -----End of Comment----- | | | | | |
| 8 | (8) | SIGNED | 4 | LLP1USER | Contains a 31-bit address pointer to a four byte user data area which is reserved for CSVLLIX1 to use. The four byte user data area is aligned on a full word boundary. It is initially zero and subsequently contains whatever value CSVLLIX1 stores in it. CSVLLIX1 can optionally use the four byte user data area to pass a parameter (or the address of a parameter list) to itself on subsequent invocations. CSVLLIX1 must manage the serialization of the four byte user data area, pointed to by the LLP1USER field. (Compare-and-swap (CS) is a potential serialization method.) If LLA is restarted, the four byte user area will not be reset to zero. It will contain the last value stored by CSVLLIX1. |
| 12 | (C) | CHARACTER | 8 | LLP1DUR | Time (Duration) in CPU TOD clock units used to fetch the module. |
| 20 | (14) | CHARACTER | 4 | LLP1PROV | Provider of the module indicated by a four byte acronym: "LLAF" indicates LLA Fetch satisfied the fetch request by utilizing the LLA staged copy of the module. "PGMF" indicates LLA Fetch utilized DFP Program Fetch to obtain a copy of the module from its home location. |
| 24 | (18) | SIGNED | 4 | LLP1AVUI | Time averaged system high real storage unreferenced interval count (UIC). Units of UIC are in seconds. |
| 28 | (1C) | SIGNED | 4 | LLP1AVMG | Time averaged expanded storage migration age in seconds. |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|-----------------------------------|------|------------|-----|-------------------|---|
| Dec | Hex | | | | |
| 32 | (20) | CHARACTER | 76 | LLP1PDS2 | BLDL format PDS directory entry for this entry point. (Mapped by IHAPDS.) |
| 108 | (6C) | CHARACTER | 44 | LLP1DSN | The data set name for this entry point (padded on the right with blanks) |
| 108 | (6C) | X'98' | 0 | LLP1END | *** End+1 of the LLP1. |
| Comment | | | | | |
| -----Level number----- | | | | | |
| End of Comment | | | | | |
| 108 | (6C) | X'2' | 0 | LLP1LNUM | "2" Current level of LLP1 |
| Comment | | | | | |
| -----Return and reason codes----- | | | | | |
| End of Comment | | | | | |
| 108 | (6C) | X'0' | 0 | #RCIX1_DEFAULT | "0" CSVLLIX1 return code in register 15 which directs LLA Fetch to use the default threshold to trigger LLA module staging. |
| 108 | (6C) | X'4' | 0 | #RCIX1_OVERRIDE | "4" CSVLLIX1 return code in register 15 which directs LLA Fetch either to trigger staging or to not trigger staging. The reason code in register 0 specifies the required action. |
| 108 | (6C) | X'0' | 0 | #RSIX1_DEFAULT | "0" CSVLLIX1 reason code in register 0 when the return code is RCIX1_DEFAULT meaning that LLA Fetch must use the default threshold to trigger LLA module staging. |
| 108 | (6C) | X'1' | 0 | #RSIX1_TRIGGER | "1" CSVLLIX1 reason code in register 0 when the return code is RCIX1_OVERRIDE meaning that LLA Fetch must trigger staging. |
| 108 | (6C) | X'2' | 0 | #RSIX1_NO_TRIGGER | "2" CSVLLIX1 reason code in register 0 when the return code is RCIX1_OVERRIDE meaning that LLA Fetch must not trigger staging. |

LLP1 Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|-------------------|------------|-----------|----------|------------|-----------|
| #RCIX1_DEFAULT | 6C | 0 | LLP1PROV | 14 | |
| #RCIX1_OVERRIDE | 6C | 4 | LLP1RSV1 | 5 | |
| #RSIX1_DEFAULT | 6C | 0 | LLP1USER | 8 | |
| #RSIX1_NO_TRIGGER | 6C | 2 | | | |
| #RSIX1_TRIGGER | 6C | 1 | | | |
| LLP1 | 0 | | | | |
| LLP1AVMG | 1C | | | | |
| LLP1AVUI | 18 | | | | |
| LLP1DSN | 6C | | | | |
| LLP1DUR | C | | | | |
| LLP1END | 6C | 98 | | | |
| LLP1ID | 0 | | | | |
| LLP1LEN | 6 | | | | |
| LLP1LEVL | 4 | | | | |
| LLP1LNUM | 6C | 2 | | | |
| LLP1PDS2 | 20 | | | | |

LLP2 Programming Interface information

Programming Interface information

LLP2

End of Programming Interface information

LLP2 Heading Information

Common Name: LLA Staging Installation Exit Parameters
Macro ID: IHALLP2
DSECT Name: LLP2
Owning Component: Contents Supervisor (SC1CJ)
Eye-Catcher ID: LLP2
 Offset: 0
 Length: 4
Storage Attributes: Subpool: 0
 Key: 0
 Residency: 24 Bit
Size: 8 character header.
 Variable number of LLP2X's (length is in LLP2LEN)
Created by: Module CSVLLST2
Pointed to by: LLASX2WA
Serialization: None
Function: Provides a mapping for the statistics for the staged modules for which recent fetch statistics exist to be passed to LLA exits.

LLP2 Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---|------|------------|-----|--------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | LLP2 | LLA Staging exit parameters. |
| -----Header----- | | | | | |
| End of Comment | | | | | |
| 0 | (0) | CHARACTER | 4 | LLP2ID | LLP2 id = "LLP2". |
| 4 | (4) | SIGNED | 1 | LLP2LEVL | LLP2 level = 2. |
| 5 | (5) | CHARACTER | 1 | LLP2RSV1 | Reserved. |
| 6 | (6) | SIGNED | 2 | LLP2LEN | Length of the LLP2 including all its entry point sections (LLP2EP) and its extension LLP2X. There are LLP2EPCT entry point sections. |
| -----Inputs and outputs to control LLA Staging----- | | | | | |
| End of Comment | | | | | |
| 8 | (8) | SIGNED | 4 | LLP2USER | Contains a 31-bit address pointer to a four byte user data area which is reserved for CSVLLIX2 to use. The four byte user data is aligned on a full word boundary. It is initially zero and subsequently contains any value stored in it by CSVLLIX2. CSVLLIX2 can optionally use the four byte user data area to pass a parameter (or the address of a parameter list) to itself on subsequent invocations. The four byte field will be reset to zero when LLA is restarted. |
| 12 | (C) | SIGNED | 4 | LLP2VALU (4) | Factors of value, each in the range of -10,000 to +10,000, which indicate the relative value to the system of LLA providing this module to users. See also LLP2WGTS. |
| 12 | (C) | SIGNED | 4 | LLP2VRSP | Response time value (input). Derived from observed fetch durations and relative activity. |
| 16 | (10) | SIGNED | 4 | LLP2VCTN | Contention value (input). Derived from the degree of variability in response times for program fetch and LLA fetch |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|--------------|---|
| Dec | Hex | | | | |
| 20 | (14) | SIGNED | 4 | LLP2VSTO | Processor storage value (input). Derived from module size and response time savings if staged. |
| 24 | (18) | SIGNED | 4 | LLP2VUSR | User defined value (output). Default is zero. |
| 28 | (1C) | SIGNED | 4 | LLP2WGTS (4) | Weighting factors in the range 0-100 used by LLA Staging to determine the relative importance to the installation of LLA providing this module (input and output). See also LLP2VALU. |
| 28 | (1C) | SIGNED | 4 | LLP2WRSP | Response time weighting factor. |
| 32 | (20) | SIGNED | 4 | LLP2WCTN | Contention weighting factor. |
| 36 | (24) | SIGNED | 4 | LLP2WSTO | Storage weighting factor. |
| 40 | (28) | SIGNED | 4 | LLP2WUSR | User defined weighting factor. |
| Comment | | | | | |

-----Historical data-----

| | | | | | |
|----------------|------|--------|---|--------------|--|
| End of Comment | | | | | |
| 44 | (2C) | SIGNED | 4 | LLP2AVUC | System high real storage unreferenced interval count(UIC). Units of UIC are in seconds. |
| 48 | (30) | SIGNED | 4 | LLP2AVMG | Expanded storage migration age in seconds. |
| 52 | (34) | SIGNED | 4 | LLP2AVCT | 10,000 times the average number of fetches of this module in recent statistics samples. |
| 56 | (38) | SIGNED | 4 | LLP2NTVL (2) | Average length of recent statistics samples in CPU TOD clock units. |
| 64 | (40) | SIGNED | 4 | LLP2PEMN (2) | Minimum program fetch elapsed time in CPU TOD clock units. '7FFFFFFF'X if never program fetched. (e.g. if staged via a deleted alias) |
| 72 | (48) | SIGNED | 4 | LLP2LEMN (2) | Minimum LLA fetch elapsed time in CPU TOD clock units. '7FFFFFFF'X if never LLA fetched. |
| 80 | (50) | SIGNED | 4 | LLP2EPCT | Count of entry point names for this module. There are LLP2EPCT LLP2EP sections for this LLP2. |
| 84 | (54) | SIGNED | 4 | LLP2EPTR | Pointer to the first entry in the entry point section |
| 88 | (58) | SIGNED | 4 | LLP2EPLN | Length of each entry point section. |
| 92 | (5C) | SIGNED | 4 | LLP2XPTR | Pointer to the extension section, LLP2X. |
| 96 | (60) | SIGNED | 4 | LLP2X1US | Contains a 31-bit address pointer to a four byte user data area which is reserved for CSVLLIX1 to use. The four byte user data is aligned on a full word boundary. It is initially zero and subsequently contains any value stored in it by CSVLLIX1. CSVLLIX1 can optionally use the four byte user data area to pass a parameter (or the address of a parameter list) to itself on subsequent invocations. The four byte field will be reset to zero when LLA is restarted. It is passed to CSVLLIX2 to allow the exits to pass information to each other. |
| 96 | (60) | X'64' | 0 | LLP2END1 | *** End+1 of LLP2 base section. |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|--------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | LLP2EP | Data for this entry point from the most recent statistics sample. There is one of these sections for each entry point in the module. There are LLP2EPCT entry points in this module. The LLP2EP sections follow the LLP2 section. |
| 0 | (0) | SIGNED | 4 | LLP2PFCT | Program fetch count. |
| 4 | (4) | SIGNED | 4 | LLP2LFCT | LLA fetch count. |
| 8 | (8) | SIGNED | 4 | LLP2PEMX (2) | Maximum program fetch elapsed time in CPU TOD clock units. '00000000'X if no data exists. |
| 16 | (10) | SIGNED | 4 | LLP2LEMX (2) | Maximum LLA fetch elapsed time in CPU TOD clock units. '00000000'X if no data exists. |
| 24 | (18) | SIGNED | 4 | LLP2IPDV (2) | Sum of deltas for the sample of program fetch duration minus minimum program fetch, in TOD units. |
| 32 | (20) | SIGNED | 4 | LLP2ILDV (2) | Sum of deltas for the sample of LLA fetch duration minus minimum LLA fetch, in TOD units. |
| 40 | (28) | SIGNED | 4 | LLP2HPCD (2) | PGMF contention delta for the name. The contention delta is the rolling average of LLP2IPDV divided by LLP2PFCT |

LLP2 Map

| Offsets | | | | | |
|---------|------|------------|-----|--------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 48 | (30) | SIGNED | 4 | LLP2HLCD (2) | LLAF contention delta for the name. The contention delta is the rolling average of LLP2ILDV divided by LLP2LFCT |
| 56 | (38) | CHARACTER | 76 | LLP2PDS2 | BLDL format PDS directory entry for this entry point. (Mapped by IHAPDS.) |

| Offsets | | | | | |
|---------|------|------------|-----|--------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | LLP2X | The extension to the LLP2 parameter list. The LLP2X is located in contiguous storage following the last entry of the LLP2EP array. On entry to CSVLLIX2, its address is in LLP2XPTR. |
| 0 | (0) | CHARACTER | 44 | LLP2XDSN | The data set name for the entry points in the LLP2EP array. (Padded on the right with blanks) |
| 44 | (2C) | SIGNED | 4 | LLP2VSTA | The staging threshold for this library. Modules whose value is above this threshold are added to the staging candidate list. See prolog for more information about this threshold. |
| 48 | (30) | SIGNED | 4 | LLP2VDES | The deactivating threshold for this library. Modules whose value is below this threshold and are currently staged are deactivated. See prolog for more information about this threshold. |
| 52 | (34) | SIGNED | 4 | LLP2LPCD (2) | Average PGM contention delta for the library in TOD units per byte |
| 60 | (3C) | SIGNED | 4 | LLP2LLCD (2) | Average LLA contention delta for the library in TOD units per byte |

Comment

-----Level number-----

End of Comment

| | | | | | |
|----|------|------|---|----------|-------------------------|
| 60 | (3C) | X'2' | 0 | LLP2LNUM | "2" Value for LLP2LEVL. |
|----|------|------|---|----------|-------------------------|

Comment

-----Return and reason codes-----

End of Comment

| | | | | | |
|----|------|------|---|--------------------|---|
| 60 | (3C) | X'0' | 0 | #RCIX2_EVALUATE | "0" CSVLLIX2 return code in register 15 which directs LLA Staging to use the calculated LLA value of this module to decide whether or not to stage the module. |
| 60 | (3C) | X'4' | 0 | #RCIX2_OVERRIDE | "4" CSVLLIX2 return code in register 15 which directs LLA Staging to stage or unstage the module according to the reason code in register 0. |
| 60 | (3C) | X'0' | 0 | #RSIX2_EVALUATE | "0" CSVLLIX2 reason code in register 0 when the return code is RCIX2_EVALUATE meaning that LLA Staging must use the calculated LLA value of this module to decide whether or not to stage the module. |
| 60 | (3C) | X'1' | 0 | #RSIX2_MUSTSTAGE | "1" CSVLLIX2 reason code in register 0 when the return code is RCIX2_OVERRIDE meaning that LLA Staging must stage this module. |
| 60 | (3C) | X'2' | 0 | #RSIX2_MUSTNTSTAGE | "2" CSVLLIX2 reason code in register 0 when the return code is RCIX2_OVERRIDE meaning that LLA Staging must not use a staged copy of the module. |

LLP2 Cross Reference

| Name | Hex Offset | Hex Value |
|--------------------|------------|-----------|
| #RCIX2_EVALUATE | | |
| | 3C | 0 |
| #RCIX2_OVERRIDE | | |
| | 3C | 4 |
| #RSIX2_EVALUATE | | |
| | 3C | 0 |
| #RSIX2_MUSTNTSTAGE | | |
| | 3C | 2 |
| #RSIX2_MUSTSTAGE | | |
| | 3C | 1 |
| LLP2 | 0 | |
| LLP2AVCT | 34 | |
| LLP2AVMG | 30 | |
| LLP2AVUC | 2C | |
| LLP2END1 | 60 | 64 |
| LLP2EP | 0 | |
| LLP2EPCT | 50 | |
| LLP2EPLN | 58 | |
| LLP2EPTR | 54 | |
| LLP2HLCD | 30 | |
| LLP2HPCD | 28 | |
| LLP2ID | 0 | |
| LLP2ILDV | 20 | |
| LLP2IPDV | 18 | |
| LLP2LEMN | 48 | |
| LLP2LEMX | 10 | |
| LLP2LEN | 6 | |
| LLP2LEVL | 4 | |
| LLP2LFCT | 4 | |
| LLP2LLCD | 3C | |
| LLP2LNUM | 3C | 2 |
| LLP2LPCD | 34 | |
| LLP2NTVL | 38 | |
| LLP2PDS2 | 38 | |
| LLP2PEMN | 40 | |
| LLP2PEMX | 8 | |
| LLP2PFCT | 0 | |
| LLP2RSV1 | 5 | |
| LLP2USER | 8 | |
| LLP2VALU | C | |
| LLP2VCTN | 10 | |
| LLP2VDES | 30 | |
| LLP2VRSP | C | |
| LLP2VSTA | 2C | |
| LLP2VSTO | 14 | |
| LLP2VUSR | 18 | |
| LLP2WCTN | 20 | |
| LLP2WGTS | 1C | |
| LLP2WRSP | 1C | |
| LLP2WSTO | 24 | |
| LLP2WUSR | 28 | |
| LLP2X | 0 | |
| LLP2XDSN | 0 | |
| LLP2XPTR | 5C | |
| LLP2X1US | 60 | |

LLT Programming Interface information

Programming Interface information

LLT

End of Programming Interface information

LLT Heading Information

Common Name: Link List Table
Macro ID: IHALLT
DSECT Name: LLT LLTAPFTB
Owning Component: Contents Supervisor (SC1CJ)
Eye-Catcher ID: LLT
 Offset: 0
 Length: 4
Storage Attributes: Subpool: 245
 Key: 0
 Residency: Above 16M
Size: 8 character header.
 Variable number of 45 character entries
Created by: Modules IEAVNPE5, CSVDLPR
Pointed to by: DLCBLLT@ field of the DLCB data area
Serialization: None
Function: Provides a mapping for the table of data sets that
 comprise the link list concatenation.

LLT Map

| Offsets | | | | | |
|---------|-----|------------|-----|--------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | * | LLT | The basing expression was changed because CVTLLTA does not point to the true LLT any longer. Users should either use ASSBDLCB (IHAASSB) -> DLCBLLT@ (CSVDLCB) or specify CVTLLTA themselves. |
| 0 | (0) | CHARACTER | 8 | LLTHEAD | TABLE HEADER |
| 0 | (0) | CHARACTER | 4 | LLTID | TABLE ID 'LLT ' |
| 4 | (4) | SIGNED | 4 | LLTCOUNT | NUMBER OF ENTRIES IN TABLE |
| 8 | (8) | CHARACTER | 45 | LLTENTRY (*) | ENTRIES IN TABLE |
| 8 | (8) | UNSIGNED | 1 | LLTDSLTH | LENGTH OF DATASET NAME |
| 9 | (9) | CHARACTER | 44 | LLTDSN | DATASET NAME |

| Offsets | | | | | |
|---------|-----|------------|-----|--------------|-----------------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | * | LLTAPFTB | LNKLST APF libraries table. |
| 0 | (0) | CHARACTER | 1 | LLTANTRY (*) | LNKLST data set entries |
| 0 | (0) | CHARACTER | 1 | LLTAFLGS | Flag byte |
| | | 1... | | LLTAPFIN | Library is in APF table |
| | | .111 1111 | | LLTARSV1 | Reserved |

LLT Cross Reference

| Name | Hex Offset | Hex Value |
|-------------|-----------------------|----------------------|
| LLT | 0 | |
| LLTAFLGS | 0 | |
| LLTANTRY | 0 | |
| LLTAPFIN | 0 | 80 |
| LLTAPFTB | 0 | |
| LLTARSV1 | 0 | 7F |
| LLTCOUNT | 4 | |
| LLTDSLTH | 8 | |
| LLTDSN | 9 | |
| LLTENTRY | 8 | |
| LLTHEAD | 0 | |
| LLTID | 0 | |

LPAL Heading Information

| | |
|--------------------------|---|
| Common Name: | LPA Device Support Module List |
| Macro ID: | IOSDLPAL |
| Owning Component: | I/O Supervisor (SC1C3) |
| Eye-Catcher ID: | LPAL |
| Offset: | Offset 0 and length 4 |
| Subpool and Key: | Built in the IPL work space Copied into the extended SQA for NIP processing |
| Size: | Variable length |
| Created by: | IEAIPL40 (IRIM to Identify the Device Support Modules) |
| Pointed to by: | IVTLPALP field of the IVT data area during IPL processing NVTLPALP field of the NVT data area during NIP processing |
| Serialization: | None |
| Function: | The LPA Device Support Module List contains the list of the LPA device support modules that are required to support the devices in the current I/O configuration. |

LPAL Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|--------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | * | LPAL | LPA Device Support Module List |
| 0 | (0) | CHARACTER | 8 | LPALHEAD | LPA List header. |
| 0 | (0) | CHARACTER | 4 | LPALID | LPA List identifier ('LPAL') |
| 4 | (4) | SIGNED | 4 | LPALCNT | Count of module names in list |
| 8 | (8) | CHARACTER | 8 | LPALNAME (*) | List of LPA module names in ascending alpha-numeric order |

LPAL Constants

| Len | Type | Value | Name | Description |
|---|-----------|-------|----------|---------------------|
| <div> <div>Comment</div> <div> <p>The following constant is used to place an identifier in the LPA Device Support Module List (LPALID field).</p> </div> <div>End of Comment</div> </div> | | | | |
| 4 | CHARACTER | LPAL | LPALIDNM | LPA List identifier |

LPAT Heading Information

Common Name: LPALST Table
Macro ID: IHALPAT
DSECT Name: LPAT
Owning Component: Contents Supervisor (SC1CJ)
Eye-Catcher ID: LPAT
Offset: Offset 0 and length 4
Subpool and Key: 252 and key 0
Size: 8 character header; variable number of 45 character entries.
Created by: Program Manager RIM (IEAVNP05)
Pointed to by: CVTEPLPS field of the CVT data area
Serialization: None
Function: The LPAT lists the data sets that are included in the LPALST concatenation.

LPAT Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|--------------|----------------------------|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | * | LPAT | |
| 0 | (0) | CHARACTER | 8 | LPATHDR | Header section |
| 0 | (0) | CHARACTER | 4 | LPATID | Table id 'LPAT' |
| 4 | (4) | SIGNED | 4 | LPATCNT | Number of entries in table |
| 8 | (8) | CHARACTER | 45 | LPATNTRY (*) | Table entry |
| 8 | (8) | UNSIGNED | 1 | LPATDSLN | Length of data set name |
| 9 | (9) | CHARACTER | 44 | LPATDSN | Data set name |

LPBT Heading Information

Common Name: TABLE OF LOGICAL PATH CONTROL BLOCKS
Macro ID: IRALPBT
DSECT Name: LPBT
Owning Component: SYSTEMS RESOURCE MANAGER (SC1CX)
Eye-Catcher ID: LPBT
 Offset: 0
 Length: 4
Storage Attributes: Subpool: 245
 Key: 0
 Residency: ABOVE 16M LINE
Size: 16 + 32 X (NUMBER OF LPBS)
Created by: IEAVNP1F
Pointed to by: THE ADDRESS OF THE LPBT IS CONTAINED
 IN THE -CMCTLPBT- FIELD OF THE CHANNEL MEASUREMENT
 CONTROL TABLE
Serialization: SRM LOCK
Function: THE LPBT IS A CONTIGUOUS STORAGE AREA USED
 BY SYSTEM RESOURCES MANAGER TO CONTAIN THE LPB'S.

LPBT Map

| Offsets | | | | | |
|---------|-----|------------|-----|------------|-------------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 12 | LPBT | |
| 0 | (0) | CHARACTER | 12 | LPBTHDR | |
| 0 | (0) | CHARACTER | 4 | LPBTNAME | ACRONYM 'LPBT' |
| 4 | (4) | SIGNED | 4 | LPBTSIZE | NO. OF BYTES IN LPBT |
| 8 | (8) | SIGNED | 2 | LPBTLAST | OFFSET TO LAST USED LPB |
| 10 | (A) | CHARACTER | 2 | LPBTRSV1 | RESERVED |

| Offsets | | | | | |
|---------|------|------------|-----|--------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 36 | LPB | LOGICAL PATH BLOCK |
| 0 | (0) | BITSTRING | 8 | LPBID | LOGICAL PATH BLOCK IDENTIFIER MASK |
| 8 | (8) | UNSIGNED | 4 | LPBWORK | WORK AREA |
| 12 | (C) | SIGNED | 2 | LPBCPUT | LPB UTILIZATION, DERIVED FROM CPID UTILIZATIONS IN PERCENT TIMES 100 |
| 14 | (E) | SIGNED | 2 | LPBCONN | PERCENT CONNECTION TIME FOR ALL DEVICES USING THIS LPB IN PERCENT TIMES 100 |
| 16 | (10) | UNSIGNED | 1 | LPBCLASS | DEVICE CLASS INDEX TO SELECT LPB THRESHOLDS |
| 17 | (11) | BITSTRING | 1 | LPBFLG | FLAGS |
| | | 1... | | LPBDAREQ | CPID DATA REQUESTED |
| | | .1.. | | LPBOUTIL | LPB IS OVERUTILIZED |
| | | ..1. | | LPBUUTIL | LPB IS UNDERUTILIZED |
| | | ...1 | | LPBDAVAL | DEVICE ALLOCATION DATA (LPB UTILIZATION) IS VALID |
| | | 1... | | LPBLBVAL | LOAD BALANCER DATA (PERCENT CONNECTION TIME) IS VALID |
| | |111 | | * | RESERVED |
| 18 | (12) | SIGNED | 2 | LPBRVUF | LPB UTILIZATION FACTOR FOR COMPUTING RECOMMENDATION VALUES |
| 20 | (14) | SIGNED | 2 | LPBCPIDO (8) | ARRAY OF 8, 2-BYTE ENTRIES HAVING OFFSETS INTO THE CPMT (0 VALUE MEANS NO ENTRY) |

LPBT Cross Reference

LPBT Cross Reference

| Name | Hex Offset | Hex Value |
|------------|---------------|--------------|
| LPB | 0 | |
| LPBCCLASS | 10 | |
| LPBCONNPNP | E | |
| LPBCPIDO | 14 | |
| LPBCPUT | C | |
| LPBDAREQ | 11 | 80 |
| LPBDAVAL | 11 | 10 |
| LPBFLG | 11 | |
| LPBID | 0 | |
| LPBLBVAL | 11 | 08 |
| LPBOUTIL | 11 | 40 |
| LPBRVUF | 12 | |
| LPBT | 0 | |
| LPBTHDR | 0 | |
| LPBTLAST | 8 | |
| LPBTNAME | 0 | |
| LPBTRSV1 | A | |
| LPBTSIZE | 4 | |
| LPBUUTIL | 11 | 20 |
| LPBWORK | 8 | |

LPDE Heading Information

Common Name: Link Pack Directory Entry
Macro ID: IHALPDE
DSECT Name: LPDE
Owning Component: Contents Supervisor (SC1CJ)
Eye-Catcher ID: None
Storage Attributes: Residency: LPA, Below 16M
Size: 40 bytes
Created by: Contents Supervisor RIM (IEAVNPC5)
Pointed to by: CVTLPDIR field of the CVT data area
 LPDECHN field of the LPDE data area(next LPDE)
 LLECDPT field of the LLE data area
 RBCDE1 field of the RB data area
 RBCDE field of the SVRB data area
 RBCDE field of the PRB data area
 LPDEMJP field of the LPDE data area
Serialization: None
Function: Each LPDE represents a particular load module
 which is loaded into the pageable link pack area.

LPDE Map

| Offsets | | | | | |
|---------|------|------------|-----|------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 40 | LPDE | |
| 0 | (0) | ADDRESS | 4 | LPDECHN | ADDRESS OF NEXT LPDE IN CHAIN OF LPDE SYNONYMS |
| 4 | (4) | ADDRESS | 4 | LPDERBP | RESERVED |
| 8 | (8) | CHARACTER | 8 | LPDENAM | EITHER MODULE NAME OR ALIAS NAME |
| 16 | (10) | ADDRESS | 4 | LPDENTP | RELOCATED ENTRY POINT ADDRESS |
| | | 1... | | LPDEMODE | ROUTINE RUNS IN 31 BIT MODE |
| 16 | (10) | BITSTRING | 3 | * | |
| 19 | (13) |1 | | LPDEAM64 | ROUTINE RUNS IN 64 BIT MODE |
| 20 | (14) | ADDRESS | 4 | LPDEMJP | POINTER TO THE MAJOR LPDE IF THIS IS A MINOR LPDE, OTHERWISE ZERO |
| 24 | (18) | ADDRESS | 2 | LPDEUSE | COUNT FIELD - COUNT IS 1 |
| 26 | (1A) | CHARACTER | 1 | LPDEATTB | ATTRIBUTE FLAGS |
| | | 1... | | LPDEOM | END OF MEMORY OPTION FOR A CDE - MUST BE ZERO FOR AN LPDE |
| | | .111 | | * | RESERVED |
| | | 1... | | LPDELPDE | LPDE IDENTIFIER BIT - MUST BE ON IN AN LPDE AND OFF IN A CDE |
| | |111 | | * | RESERVED |
| 27 | (1B) | CHARACTER | 1 | LPDESP | SUBPOOL FIELD FOR A CDE - MUST BE ZERO FOR AN LPDE |
| 28 | (1C) | CHARACTER | 1 | LPDEATTR | ATTRIBUTE FLAGS |
| | | 1... | | LPDENIP | MODULE LOADED BY NIP |
| | | .1.. | | LPDENIC | NOT IN CORE BIT FOR A CDE - MUST BE ZERO FOR AN LPDE |
| | | ..1. | | LPDEREN | MODULE IS REENTERABLE |
| | | ...1 | | LPDESER | MODULE IS SERIALY REUSABLE |
| | | 1... | | LPDENFN | NON FUNCTIONAL INDICATOR FLAG FOR A CDE - MUST BE ZERO FOR AN LPDE |
| | |1.. | | LPDEMIN | THIS IS A MINOR LPDE |
| | |1. | | LPDEJPA | JOB PACK AREA MODULE INDICATOR - MUST BE ZERO FOR AN LPDE |
| | |1 | | LPDENLR | NOT LOADABLE ONLY |
| 29 | (1D) | CHARACTER | 1 | LPDEATT2 | SECOND ATTRIBUTE FLAG BYTE |

LPDE Cross Reference

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|---|
| Dec | Hex | | | | |
| | | 1... | | LPDESPZ | INDICATES A MODULE LOADED BY THE AOS LOADER - MUST BE ZERO FOR AN LPDE |
| | | .1.. | | LPDEREL | INDICATES A MODULE IS INACTIVE AND MAY BE RELEASED, MUST BE ZERO FOR AN LPDE |
| | | ..1. | | LPDEXLE | EXTENT LIST BUILT - MAIN STORAGE OCCUPIED BY MODULE IS DESCRIBED THEREIN |
| | | ...1 | | LPDERLC | LPDE CONTAINS A RELOCATED ALIAS ENTRY POINT ADDRESS |
| | | 1... | | LPDEANYM | ROUTINE RUNS IN ANY MODE |
| | |1.. | | LPDEOLY | MODULE IS IN OVERLAY FORMAT - MUST BE ZERO FOR AN LPDE |
| | |1. | | LPDESYSL | AUTHORIZED LIBRARY MODULE |
| | |1 | | LPDEAUTH | PROGRAM AUTHORIZATION FLAG ICB360 |
| 30 | (1E) | CHARACTER | 1 | LPDEATT3 | RESERVED |
| | | 1111 1... | | * | RESERVED |
| | |1.. | | LPDEDYNL | Dynamic LPA. CDE bit. Never on within LPDE |
| | |1. | | LPDEFIX | Page-Fixed. CDE bit. Never on within LPDE |
| | |1 | | LPDEPROT | Page-Protected. CDE bit, Never on within LPDE |
| 31 | (1F) | CHARACTER | 1 | LPDEATT4 | Flags |
| 32 | (20) | CHARACTER | 8 | LPDEMJNM | MAJOR LPDE ENTRY POINT NAME WHEN LPDEMIN=1 OR 8-BYTE EXTENT LIST IF LPDEMIN=0 |
| 32 | (20) | SIGNED | 4 | LPDEXTLN | LENGTH OF MAIN STORAGE BLOCK IN WHICH MODULE RESIDES |
| 36 | (24) | ADDRESS | 4 | LPDEXTAD | ADDRESS OF MAIN STORAGE BLOCK IN WHICH MODULE RESIDES ("Load Point") */ |

LPDE Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| LPDE | 0 | | LPDESYSL | 1D | 02 |
| LPDEAM64 | 13 | 01 | LPDEUSE | 18 | |
| LPDEANYM | 1D | 08 | LPDEXLE | 1D | 20 |
| LPDEATTB | 1A | | LPDEXTAD | 24 | |
| LPDEATTR | 1C | | LPDEXTLN | 20 | |
| LPDEATT2 | 1D | | | | |
| LPDEATT3 | 1E | | | | |
| LPDEATT4 | 1F | | | | |
| LPDEAUTH | 1D | 01 | | | |
| LPDECHN | 0 | | | | |
| LPDEDYNL | 1E | 04 | | | |
| LPDEFIX | 1E | 02 | | | |
| LPDEJPA | 1C | 02 | | | |
| LPDELPDE | 1A | 08 | | | |
| LPDEMIN | 1C | 04 | | | |
| LPDEMJNM | 20 | | | | |
| LPDEMJP | 14 | | | | |
| LPDEMODE | 10 | 80 | | | |
| LPDENAM | 8 | | | | |
| LPDENFN | 1C | 08 | | | |
| LPDENIC | 1C | 40 | | | |
| LPDENIP | 1C | 80 | | | |
| LPDENLR | 1C | 01 | | | |
| LPDENTP | 10 | | | | |
| LPDEOLY | 1D | 04 | | | |
| LPDEOM | 1A | 80 | | | |
| LPDEPROT | 1E | 01 | | | |
| LPDERBP | 4 | | | | |
| LPDEREL | 1D | 40 | | | |
| LPDEREN | 1C | 20 | | | |
| LPDERLC | 1D | 10 | | | |
| LPDESER | 1C | 10 | | | |
| LPDESP | 1B | | | | |
| LPDESPZ | 1D | 80 | | | |

LQB Heading Information

Common Name: Language Query Block Mapping Macro
Macro ID: CNLMLQB
DSECT Name: LQB LQBLNGEN
Owning Component: MVS Message Service
Eye-Catcher ID: 'LQB '
 Offset: 0
 Length: 4
Storage Attributes: Subpool: of caller
 Key: of caller
 Residency: of caller
Size: N/A
Created by: Caller of Message Query Language service (QRYLANG)
Pointed to by: LQB_PTR
Serialization: None required.
Function: Used to map the Language Query Block (LQB) used for input and output by the Message Query Language service (QRYLANG).

LQB Map

| Offsets | | | | | |
|---------|------|------------|-----|-------------|---------------------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | LQB | LANGUAGE QUERY BLOCK |
| 0 | (0) | CHARACTER | 4 | LQBACRN | ACRONYM "LQB" |
| 4 | (4) | BITSTRING | 1 | LQBVRSN | LQB VERSION NUMBER |
| 5 | (5) | CHARACTER | 3 | | RESERVED |
| 8 | (8) | SIGNED | 4 | LQBSIZE | SIZE OF THIS LQB |
| 12 | (C) | CHARACTER | 24 | LQBINLNG | LANGUAGE TO BE QUERY |
| 36 | (24) | SIGNED | 4 | LQBCOUNT | NUMBER OF LANGUAGE ENTRIES |
| 40 | (28) | SIGNED | 4 | LQBOFFST | OFFSET TO BE 1ST LANGUAGE ENTRY |
| 44 | (2C) | CHARACTER | 8 | | RESERVED |
| 52 | (34) | SIGNED | 4 | LQBVDATL | LENGTH OF THE LQB VARIABLE AREA |
| 56 | (38) | CHARACTER | 1 | LQBVDAT (0) | LQB VARIABLE DATA SECTION |

| Offsets | | | | | |
|---------|------|------------|-----|------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | LQBLNGEN | LANGUAGE ENTRY BLOCK |
| 0 | (0) | CHARACTER | 3 | LQBLNGCD | LANGUAGE CODE |
| 3 | (3) | BITSTRING | 1 | LQBLNGFL | LANGUAGE FLAGS |
| | | 1... | | LQBDBCS | "X'80" DOUBLE BYTE LANGUAGE INDICATOR |
| 4 | (4) | CHARACTER | 24 | LQBLNGNM | PREFERRED LANGUAGE NAME |
| 28 | (1C) | CHARACTER | 10 | | RESERVED |
| 28 | (1C) | X'26' | 0 | LQBEBL | "*-LQBLNGEN" LENGTH OF LANGUAGE ENTRY BLOCK |

LQB Cross Reference

LQB Cross Reference

| Name | Hex Offset | Hex Value |
|----------|---------------|--------------|
| LQB | 0 | |
| LQBACRN | 0 | |
| LQBCOUNT | 24 | |
| LQBDBCS | 3 | 80 |
| LQBEBL | 1C | 26 |
| LQBINLNG | C | |
| LQBLNGCD | 0 | |
| LQBLNGEN | 0 | |
| LQBLNGFL | 3 | |
| LQBLNGNM | 4 | |
| LQBOFFST | 28 | |
| LQBSIZE | 8 | |
| LQBVDAT | 38 | |
| LQBVDATL | 34 | |
| LQBVRSN | 4 | |

LRB Heading Information

Common Name: LOGREC Buffer
Macro ID: IHALRB
DSECT Name: LRB
Owning Component: Machine Check Handler (BB1CT)
Eye-Catcher ID: None
Storage Attributes: Subpool: 239 when created by Machine Check Handler, 245 when created by MIH or DDR
 Key: 0
 Residency: Above 16M line
Size: Variable
Created by: MCH - modules IGFRIM00, IGFPBU CR
Pointed to by: PCCALRB R field of the PCCA data area
 PCCALRB V field of the PCCA data area
 RVTLRBPT field of the RVT data area
Serialization: MIH and DDR serialize dynamic storage subpool 245.
Function: Holds log record information that is put on SYS1.LOGREC.

LRB Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|-----------------------|-----|------------|-----|------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | LRB | |
| Comment | | | | | |
| COMMON HEADER SECTION | | | | | |
| End of Comment | | | | | |
| 0 | (0) | BITSTRING | 1 | LRBHTYPE | TYPE OF RECORD |
| Comment | | | | | |
| RECORD TYPE EQUATES | | | | | |
| End of Comment | | | | | |
| | | ..1. .11 | | LRBHSLH | "X'23" SUBCHANNEL LOGOUT RECORD |
| | | ..1. .1.1 | | LRBHCRW | "X'25" CHANNEL REPORT WORD RECORD |
| | | .11. | | LRBHREC | "X'60" DDR RECORD |
| | | 1..1 | | LRBHMDR | "X'90" MDR RECORD |
| | | .111 ...1 | | LRBHMIH | "X'71" MIH RECORD |
| | | ...1 ...1 | | LRBHMCH | "X'13" MCH RECORD |
| | | 1... ...1 | | LRBHTER | "X'81" SYSTEM TERMINATION RECORD |
| | | 1... .1.. | | LRBHSRS | "X'84" SYSTEM RESTARTABLE WAIT |
| | | 1.1. | | LRBHMCF | "X'A0" MCH FRAME RECORD |
| | | 1.11 | | LRBHCCF | "X'B0" CCH FRAME RECORD |
| | | .1.. | | LRBHSFW | "X'40" 4X TYPE RECORDS ARE SOFTWARE TYPE MAPPED BY IHAHDR |
| | | .1.. 1111 | | LRBHSFR | "X'4F" " " |
| 1 | (1) | BITSTRING | 1 | LRBHREL | RELEASE NUMBER |
| 1 | (1) | X'1' | 0 | LRBHSYS | "LRBHREL" SYSTEM TYPE |

LRB Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|-------------------------|------|------------------------|-----|--------------------|---|
| Dec | Hex | | | | |
| Comment | | | | | |
| EQUATES FOR LRBHSYS | | | | | |
| End of Comment | | | | | |
| 2 | (2) | 1... BITSTRING | 1 | LRBHVS2 LRBHSW0 | "X'80" OS/VS2 SYSTEM INDEPENDENT SWITCH BYTE |
| Comment | | | | | |
| EQUATES FOR LRBHSW0 | | | | | |
| End of Comment | | | | | |
| 3 | (3) | 1... | 1 | LRBHMORE | "X'80" MULTIPLE RECORDS |
| | | .1.. | | LRBHNS | "X'40" STCK USED / NS MACHINE |
| | | ..1. | | LRBNOLOG | "X'20" NO LOG RECORD FLAG. |
| | | ...1 | | LRBHEAB | "X'10" EXTENDED ADDRESSING |
| | | 1.. | | LRBHTMC | "X'08" TIME MACRO USED |
| | | BITSTRING | | LRBHSW1 | DEPENDENT SWITCH BYTE 0 |
| Comment | | | | | |
| DDR EQUATES FOR LRBHSW1 | | | | | |
| End of Comment | | | | | |
| | | 1... | | LRBRPRIM | "X'80" DDR PRIMARY STORAGE RECONFIG |
| | | .1.. | | LRBRSEC | "X'40" DDR SEC STORAGE RECONFIG |
| | | ..1. | | LRBROPER | "X'20" DDR OPERATOR REQUEST RECONFIG |
| | | ...1 | | LRBRSYSI | "X'10" DDR PERMANENT ERROR REQUEST |
| Comment | | | | | |
| MCH EQUATES FOR LRBHSW1 | | | | | |
| End of Comment | | | | | |
| | | 1... | | LRBMNOIO | "X'80" 1: IOSRMCH TELLING IGFPISIG NOT TO PERFORM ANY I/O |
| | | .1.. | | LRBMNVF | "X'40" LRB MAY NOT BE VALID |
| | | ..1. | | LRBMSYST | "X'20" SYSTEM TERMINATED |
| | | ...1 | | LRBTRACE | "X'10" SET TO 1 BY IGFPICHI BEFORE ALTRTRC SUSPEND AND SET TO 0 AFTER |
| | | 1.. | | LRBDAT | "X'08" SET TO 1 BY IGFPICHI BEFORE LOADING THE DATON PSW TO GOTO IGFPMAIN |
| | |1.. | | LRBMRECV | "X'04" SET TO 1 WHEN AN ERROR IS COMPLETELY RECOVERED |
| | |1. | | LRBMDEG | "X'02" SET TO 1 WHEN A RESOURCE IS TAKEN OFFLINE BUT NO WORK IS ABENDED |
| | |1 | | LRBMFA | "X'01" SET TO 1 AFTER A MALFUNCTION ALERT |
| 4 | (4) | BITSTRING | 1 | LRBHSW2 | DEPENDENT SWITCH BYTE 1 |
| 4 | (4) | X'4' | 0 | LRBMACT | "LRBHSW2" MCH BUFFER ACTIVE FLAG |
| 5 | (5) | BITSTRING | 1 | LRBHSW3 | DEPENDENT SWITCH BYTE 2 |
| 5 | (5) | X'5' | 0 | LRBMCLB | "LRBHSW3" LOGREC CLOBBER FLAG (INDICATES LOGREC BUFFER OVERLAYED) |
| 6 | (6) | BITSTRING | 1 | LRBHCNT | PHYSICAL RECORDS PER LOGICAL REC CNT |
| 7 | (7) | BITSTRING | 1 | | RESERVED |
| 8 | (8) | BITSTRING | 4 | LRBHDATE | DATE |
| 12 | (C) | BITSTRING | 4 | LRBHTIME | TIME |
| 16 | (10) | DBL WORD | 8 | (0) | |
| 16 | (10) | BITSTRING | 8 | LRBHCPID (0) | . STIDP OPERAND FIELD |
| 16 | (10) | BITSTRING | 1 | | . RESERVED |
| 17 | (11) | BITSTRING | 3 | LRBHCSE | . CPU SERIAL NUMBER |
| 20 | (14) | BITSTRING | 2 | LRBHMDL | . CPU MODEL NUMBER |
| 22 | (16) | BITSTRING | 2 | | . RESERVED |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|------------------------------|------|------------|-----|--------------|---|
| Dec | Hex | | | | |
| 24 | (18) | CHARACTER | 1 | LRBBASE (0) | . END OF HEADER |
| Comment | | | | | |
| MACHINE CHECK HANDLER RECORD | | | | | |
| End of Comment | | | | | |
| 24 | (18) | SIGNED | 4 | LRBMLNH | . LENGTH OF LOGREC RECORD |
| 28 | (1C) | BITSTRING | 4 | LRBMWSC | . WAIT STATE CODE |
| 32 | (20) | BITSTRING | 4 | LRBMCEIA (0) | . MACHINE CHECK ERROR INDICATOR AREA |
| 32 | (20) | BITSTRING | 1 | LRBMTERM | . TERMINAL ERROR FLAGS |
| | | ...1. | | LRBMTTHR | "X'20" . HARD ERROR THRESHOLD FLAG |
| | | ...1 | | LRBMTSEC | "X'10" . SECONDARY ERROR FLAG |
| | | 1... | | LRBMTCKS | "X'08" . CHECK STOP FLAG |
| | |1 | | LRBMTINV | "X'01" . INVALID LOGOUT FLAG (SET WHEN LRBMCIC=0 OR WHEN A STORE-STATUS-AT-ADDRESS HAS FAILED AFTER A MALFUNCTION ALERT) |
| 33 | (21) | BITSTRING | 1 | LRBMHARD | . HARD MACHINE ERROR FLAGS |
| | | 1... | | LRBMHHRD | "X'80" . ASSUMED HARD ERROR FLAG |
| | | ...1. | | LRBMHVS | "X'20" . VECTOR SOURCE FLAG |
| | | ...1 | | LRBMHSD | "X'10" . SYSTEM DAMAGE FLAG |
| | | 1... | | LRBMHINV | "X'08" . REGISTER OR PSW INVALID FLAG |
| | | 1.. | | LRBMHSTO | "X'04" . HARD STORAGE FAILURE FLAG |
| | | 1.. | | LRBMHSPF | "X'02" . HARD PROTECTION KEY ERROR FLAG |
| | |1 | | LRBMHIPD | "X'01" . INSTRUCTION PROCESSING DAMAGE FLAG |
| 34 | (22) | BITSTRING | 1 | LRBMINTM | . INTERMEDIATE ERROR FLAGS |
| | | 1... | | LRBMIPSD | "X'80" . PRIMARY SYNC DAMAGE |
| | | ...1. | | LRBMIAFD | "X'40" . ETR ATTACHMENT DAMAGE |
| | | ...1. | | LRBMISWL | "X'20" . SWITCH TO LOCAL |
| | | ...1 | | LRBMISYC | "X'10" . ETR SYNC CHECK |
| | | 1... | | LRBMITOD | "X'08" . TOD CLOCK ERROR FLAG |
| | | 1.. | | LRBMICKC | "X'04" . CLOCK COMPARATOR ERROR FLAG |
| | | 1.. | | LRBMICTM | "X'02" . CPU TIMER ERROR FLAG |
| | |1 | | LRBMIVTE | "X'01" . VECTOR THRESHOLD EXCEEDED FLAG. |
| 35 | (23) | BITSTRING | 1 | LRBMSOFT | . SOFT MACHINE ERROR FLAGS |
| | | 1... | | LRBMSSFT | "X'80" . ASSUMED SOFT ERROR FLAG |
| | | ...1. | | LRBMSSPD | "X'40" . SERVICE PROCESSOR DAMAGE |
| | | ...1. | | LRBMSVF | "X'20" . VECTOR FAILURE FLAG. |
| | | ...1 | | LRBMDBSE | "X'10" . DOUBLE BIT STORAGE ERROR FLAG |
| | | 1... | | LRBMSTSL | "X'08" . SYNC CHECK THRESHOLD EXCEEDED |
| | | 1.. | | LRBMSECC | "X'04" . ECC CORRECTED STORAGE ERROR FLAG |
| | | 1.. | | LRBMHIR | "X'02" . HIR CORRECTED PROCESSOR ERROR FLAG |
| | |1 | | LRBMSDG | "X'01" . DG MACHINE CHECK OCCURRED |
| 36 | (24) | BITSTRING | 1 | LRBMPDAR | . PDAR DATA (SUPPLIED BY RTM) |
| | | ...1 | | LRBMINV | "X'10" . STORAGE RECONFIGURED - PAGE INVALIDATED |
| | | 1... | | LRBMRSRC | "X'08" . STORAGE RECONFIGURATION STATUS AVAILABLE (FOLLOWING TWO BYTES ARE MEANINGFUL) |
| | | 1.. | | LRBMRSRF | "X'04" . STORAGE RECONFIGURATION NOT ATTEMPTED |
| 37 | (25) | BITSTRING | 2 | LRBMRSRS | . STORAGE RECONFIGURATION STATUS |
| 39 | (27) | BITSTRING | 1 | LRBMPWL | . PHYSICAL WORD LENGTH (CHECKING BLOCK SIZE) |
| 40 | (28) | BITSTRING | 8 | LRBMMOSW | . MACHINE CHECK OLD PSW (FROM STORAGE LOCATIONS 48-55 PRE-ESAME or 352-367 ESAME) |
| 48 | (30) | BITSTRING | 280 | LRBMFLO (0) | . MACHINE CHECK FIXED LOGOUT AREA (MOVED FROM STORAGE LOCATIONS 232-511 PRE-ESAME or 232-255 and 4608-5119 partial ESAME) |
| 48 | (30) | BITSTRING | 8 | LRBMCIC (0) | . MACHINE CHECK INTERRUPT CODE (MOVED FROM STORAGE LOCATIONS 232-239) |
| 48 | (30) | BITSTRING | 1 | | . 1ST BYTE OF LRBMCIC |
| | | 1... | | LRBMFSD | "X'80" . SYSTEM DAMAGE |
| | | ...1. | | LRBMFPD | "X'40" . PROCESSING DAMAGE |
| | | ...1. | | LRBMFSR | "X'20" . SYSTEM RECOVERY |
| | | 1... | | LRBMFCD | "X'08" . CLOCK DAMAGE |
| | | 1.. | | LRBMFED | "X'04" . EXTERNAL DAMAGE |
| | | 1.. | | LRBMFVF | "X'02" . VECTOR FAILURE |

LRB Map

| Offsets | | | | | |
|---------|------|------------|-----|--------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 49 | (31) |1 | 1 | LRBMFDG | "X'01" . DEGRADATION |
| | | BITSTRING | | | . 2ND BYTE OF LRBMCI |
| | | 1... | | LRBMFWN | "X'80" . POWER WARNING |
| | | .1.. | | LRBMFCP | "X'40" AN AVAILABLE CRW IS PENDING |
| | | ..1. | | LRBMFSPD | "X'20" SERVICE PROCESSOR DAMAGE |
| | | ...1 | | LRBMFCK | "X'10" CHANNEL SUBSYSTEM DAMAGE |
| | |1.. | | LRBMFVS | "X'04" VECTOR SOURCE |
| 50 | (32) |1 | 1 | LRBMIBU | "X'02" . BACK UP INDICATOR |
| | | BITSTRING | | | . 3RD BYTE OF LRBMCI |
| | | 1... | | LRBMFSE | "X'80" . STORAGE ERROR |
| | | .1.. | | LRBMFSC | "X'40" . STORAGE ERROR CORRECTED |
| | | ..1. | | LRBMFKE | "X'20" . KEY ERROR |
| | | ...1 | | LRBMFDS | "X'10" DOUBLE BIT STORAGE ERROR |
| | | 1... | | LRBMVWP | "X'08" . PSW EMWP VALIDITY |
| 51 | (33) |1.. | 1 | LRBMVMS | "X'04" . PSW MASKS AND KEY VALIDITY |
| | |1 | | LRBMVPM | "X'02" . PROGRAM MASKS AND CONDITION CODE VALIDITY |
| | |1 | | LRBMVIA | "X'01" . INSTRUCTION ADDRESS VALIDITY |
| | | BITSTRING | | | . 4TH BYTE OF LRBMCI |
| | | 1... | | LRBMVFA | "X'80" . FAILING STORAGE ADDR VALIDITY |
| | | .1.. | | LRBMVED | "X'20" . EXTERNAL DAMAGE CODE VALIDITY |
| | | ...1 | | LRBMVFP | "X'10" . FLOATING POINT REG VALIDITY |
| 52 | (34) | 1... | 1 | LRBMVGR | "X'08" . GENERAL PURPOSE REG VALIDITY |
| | |1.. | | LRBMVCR | "X'04" . CONTROL REG VALIDITY |
| | |1 | | LRBMVST | "X'01" . STORAGE LOGICAL VALIDITY |
| | | BITSTRING | | | . 5TH BYTE OF LRBMCI |
| | | .1.. | | LRBMARV | "X'40" . ACCESS REGISTER VALIDITY. |
| | | ..1. | | LRBMDAE | "X'20" DELAYED ACCESS EXCEPTION |
| | | ...1 | | LRBMCSLO | "X'10" CSLO OCCURRED |
| 53 | (35) |1 | 1 | LRBMSYC | "X'01" ETR SYNC CHECK |
| | | BITSTRING | | | . 6TH BYTE OF LRBMCI |
| | |1 | | LRBMVAFP | "X'01" Additional FP reg validity |
| | | 1... | | LRBMVAP | "X'08" ANCILLARY REPORT CONDITION BIT 44 |
| | |1.. | | LRBMVPT | "X'02" . PROCESSOR TIMER VALIDITY |
| | |1 | | LRBMVCC | "X'01" . CLOCK COMPARATOR VALIDITY |
| 54 | (36) | BITSTRING | 2 | | . RESERVED |
| 56 | (38) | BITSTRING | 4 | | . DATA FROM 240-243 |
| 60 | (3C) | BITSTRING | 4 | LRBMEDCD (0) | . DATA FROM 244-247, EXTERNAL DAMAGE CODE |
| 60 | (3C) | BITSTRING | 1 | LRBMEDC | . DATA FROM 244 BITS 0:7 |
| 61 | (3D) | BITSTRING | 1 | LRBMEDC1 | . DATA FROM 245 BITS 8:15 |
| 62 | (3E) | 1... | 1 | LRBMEDXN | "X'80" . EXTENDED STORAGE NOT OPERATIONAL |
| | | .1.. | | LRBMEDXF | "X'40" . EXTENDED STORAGE CONTROL FAILURE |
| | | BITSTRING | | LRBMEDC2 | . DATA FROM 246 BITS 16:23 |
| | | 1... | | LRBMEDPS | "X'80" . PRIMARY-SYNC DAMAGE. |
| | | .1.. | | LRBMEDAD | "X'40" . ATTACHMENT FACILITY DAMAGE. |
| | | ..1. | | LRBMEDSL | "X'20" . SWITCH TO LOCAL. |
| | | ...1 | | LRBMEDSC | "X'10" . ETR SYNC CHECK. |
| 63 | (3F) | BITSTRING | 1 | LRBMEDEC | "X'08" . SIDE CONTROL ELEMENT/SIDE ID CHANGE |
| 64 | (40) | ADDRESS | 4 | LRBMFSA | . RESERVED ALWAYS ZERO |
| 68 | (44) | BITSTRING | 4 | | . FAILING STORAGE ADDRESS (MOVED FROM STORAGE LOCATIONS 248-251) (PRE-ESAME) |
| 64 | (40) | CHARACTER | 1 | LRBMFSAE (0) | . DATA FROM 252:255 (PRE-ESAME) |
| 64 | (40) | ADDRESS | 4 | LRBMFSAH | . FSA moved from 248-255 (ESAME) |
| 68 | (44) | ADDRESS | 4 | LRBMFSAL | . FSA high half |
| 72 | (48) | CHARACTER | 1 | LRBFLA (0) | . FSA low half |
| 72 | (48) | BITSTRING | 8 | LRBSSPSW | . "FIXED LOGOUT AREA" from 256-271 (PRE- ESAME) or 4864-4879 (ESAME) |
| 80 | (50) | BITSTRING | 7 | | . STORE STATUS PSW, DATA FROM 256:263 |
| 87 | (57) | BITSTRING | 1 | LRBDRSI | . DATA FROM 264:270 |
| 88 | (58) | BITSTRING | 16 | LRBMFLOR | . DATA FROM 271,CPU ADDRESS & SITE CODE |
| 104 | (68) | BITSTRING | 64 | LRBAREGS | . DATA FROM 272:287 |
| 168 | (A8) | BITSTRING | 32 | LRBFREGS | . DATA FROM 288:351, ACCESS REGISTERS |
| 200 | (C8) | BITSTRING | 64 | LRBGREGS | . DATA FROM 352:383, FLOATING POINT REGS 0,2,4,6 |
| | | | | | . DATA FROM 384:447, GENERAL PURPOSE REGISTERS |

| Offsets | | | | | |
|---------|-------|------------|-----|-------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 264 | (108) | BITSTRING | 64 | LRBCREGS | . DATA FROM 448:511, CONTROL REGISTERS |
| 328 | (148) | BITSTRING | 1 | LRBMEVIA | . EVENT INDICATOR AREA |
| | | 1... | | LRBMISec | "X'80" . SIDE CONTROL ELEMENT/SIDE ID CHANGED |
| | | .1.. | | LRBMETRA | "X'40" . MCH TIMER SLIH REQUESTED ABEND OF THE EXTERNAL TIMER SLIH. |
| 329 | (149) | BITSTRING | 1 | LRBMMFLG | . MISCELLANEOUS FLAGS |
| | | 1... | | LRBMAPR | "X'01" . APR IS POSSIBLE |
| | |1 | | LRBAFPV | "X'01" . Software has determined that AFPRs are valid. This is either because they were not being used at the time of the machine check or because they were being simulated |
| 330 | (14A) | BITSTRING | 2 | | . RESERVED |
| 332 | (14C) | CHARACTER | 100 | LRBAFPR (0) | Save area for FPRs 1,3,5,7-15, FPCR |
| 332 | (14C) | CHARACTER | 8 | LRBFPR1 | FPR 1 |
| 340 | (154) | CHARACTER | 8 | LRBFPR3 | FPR 3 |
| 348 | (15C) | CHARACTER | 8 | LRBFPR5 | FPR 5 |
| 356 | (164) | CHARACTER | 8 | LRBFPR7 | FPR 7 |
| 364 | (16C) | CHARACTER | 8 | LRBFPR8 | FPR 8 |
| 372 | (174) | CHARACTER | 8 | LRBFPR9 | FPR 9 |
| 380 | (17C) | CHARACTER | 8 | LRBFPR10 | FPR 10 |
| 388 | (184) | CHARACTER | 8 | LRBFPR11 | FPR 11 |
| 396 | (18C) | CHARACTER | 8 | LRBFPR12 | FPR 12 |
| 404 | (194) | CHARACTER | 8 | LRBFPR13 | FPR 13 |
| 412 | (19C) | CHARACTER | 8 | LRBFPR14 | FPR 14 |
| 420 | (1A4) | CHARACTER | 8 | LRBFPR15 | FPR 15 |
| 428 | (1AC) | SIGNED | 4 | LRBFPCR | FPCR |
| 432 | (1B0) | BITSTRING | 8 | | . Reserved |
| 440 | (1B8) | CHARACTER | 64 | LRBG64H | Save area for bits 0-31 of GPRs |
| 504 | (1F8) | CHARACTER | 128 | LRBC64S | Save area for ESAME CRs |
| 632 | (278) | BITSTRING | 4 | | . Reserved |
| 636 | (27C) | CHARACTER | 1 | LRBEND (0) | END OF HEADER + MCH SECTION |

Comment

RECONFIGURATION (DDR) RECORD

End of Comment

| | | | | | |
|----|------|-----------|---|----------|---------------------------------|
| 24 | (18) | CHARACTER | 8 | LRBRJOB | 'FROM' DEVICE USER'S JOB NAME |
| 32 | (20) | CHARACTER | 6 | LRBRVOL1 | VOLUME MOUNTED ON 'FROM' DEVICE |
| 38 | (26) | CHARACTER | 6 | LRBRVOL2 | VOLUME MOUNTED ON 'TO' DEVICE |
| 44 | (2C) | CHARACTER | 1 | LRBRPH1 | PHYSICAL ID OF DEVICE |
| 45 | (2D) | CHARACTER | 3 | LRBRCUA1 | PRIMARY CUA OF 'FROM' DEVICE |
| 48 | (30) | CHARACTER | 4 | LRBRDEV1 | 'FROM' DEVICE TYPE |
| 52 | (34) | CHARACTER | 1 | LRBRPH2 | PHYSICAL ID OF 'TO' DEVICE |
| 53 | (35) | CHARACTER | 3 | LRBRCUA2 | PRIMARY CUA OF 'TO' DEVICE |
| 56 | (38) | CHARACTER | 4 | LRBRDEV2 | 'TO' DEVICE TYPE |

Comment

SYSTEM TERMINATION RECORD

End of Comment

| | | | | | |
|----|------|-----------|---|-------------|--|
| 24 | (18) | SIGNED | 4 | LRBTLNH | LOGREC RECORD LENGTH |
| 28 | (1C) | BITSTRING | 4 | LRBTWSC | WAIT STATE CODE |
| 32 | (20) | BITSTRING | 1 | LRBTUSR (0) | USER DATA FIELD-NOTE THE VALUE IN LRBTLNH IS THE TOTAL LENGTH INCLUDING THE LRBTUSR, EXCLUDING THE HEADER. |

LRB Cross Reference

LRB Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------|---------------|--------------|-----------|---------------|--------------|
| LRB | 0 | | LRBMCSLO | 34 | 10 |
| LRBADRSI | 57 | | LRBMDAE | 34 | 20 |
| LRBAFPR | 14C | | LRBMDDBSE | 23 | 10 |
| LRBAFPV | 149 | 1 | LRBMDEG | 3 | 2 |
| LRBAREGS | 68 | | LRBMEDAD | 3E | 40 |
| LRBBASE | 18 | | LRBMEDC | 3C | |
| LRBCREGS | 108 | | LRBMEDCD | 3C | |
| LRBC64S | 1F8 | | LRBMEDC1 | 3D | |
| LRBDAT | 3 | 8 | LRBMEDC2 | 3E | |
| LRBEND | 27C | | LRBMEDEC | 3E | 8 |
| LRBFLA | 48 | | LRBMEDPS | 3E | 80 |
| LRBFPCR | 1AC | | LRBMEDSC | 3E | 10 |
| LRBFPR1 | 14C | | LRBMEDSL | 3E | 20 |
| LRBFPR10 | 17C | | LRBMEDXF | 3D | 40 |
| LRBFPR11 | 184 | | LRBMEDXN | 3D | 80 |
| LRBFPR12 | 18C | | LRBMETRA | 148 | 40 |
| LRBFPR13 | 194 | | LRBMEVIA | 148 | |
| LRBFPR14 | 19C | | LRBMFA | 3 | 1 |
| LRBFPR15 | 1A4 | | LRBMFCD | 30 | 8 |
| LRBFPR3 | 154 | | LRBMFCK | 31 | 10 |
| LRBFPR5 | 15C | | LRBMFCP | 31 | 40 |
| LRBFPR7 | 164 | | LRBMFDG | 30 | 1 |
| LRBFPR8 | 16C | | LRBMFDS | 32 | 10 |
| LRBFPR9 | 174 | | LRBMFED | 30 | 4 |
| LRBFREGS | A8 | | LRBMFKE | 32 | 20 |
| LRBGREGS | C8 | | LRBMFLO | 30 | |
| LRBG64H | 1B8 | | LRBMFLOR | 58 | |
| LRBHCCF | 0 | B0 | LRBMFPD | 30 | 40 |
| LRBHCNT | 6 | | LRBMFSA | 40 | |
| LRBHCPID | 10 | | LRBMFSAE | 40 | |
| LRBHCRW | 0 | 25 | LRBMFSAH | 40 | |
| LRBHCSE | 11 | | LRBMFSAL | 44 | |
| LRBHDATE | 8 | | LRBMFSC | 32 | 40 |
| LRBHEAB | 2 | 10 | LRBMFSD | 30 | 80 |
| LRBHMCF | 0 | A0 | LRBMFSE | 32 | 80 |
| LRBHMCH | 0 | 13 | LRBMFSPD | 31 | 20 |
| LRBHMDL | 14 | | LRBMFSR | 30 | 20 |
| LRBHMDR | 0 | 90 | LRBMFVF | 30 | 2 |
| LRBHMIH | 0 | 71 | LRBMFVS | 31 | 4 |
| LRBHMORE | 2 | 80 | LRBMFWN | 31 | 80 |
| LRBHNS | 2 | 40 | LRBMHARD | 21 | |
| LRBHREC | 0 | 60 | LRBMHHRD | 21 | 80 |
| LRBHREL | 1 | | LRBMHINV | 21 | 8 |
| LRBHSFR | 0 | 4F | LRBMHIPD | 21 | 1 |
| LRBHSFW | 0 | 40 | LRBMHSD | 21 | 10 |
| LRBHS LH | 0 | 23 | LRBMHSPF | 21 | 2 |
| LRBHSRS | 0 | 84 | LRBMHSTO | 21 | 4 |
| LRBHSW0 | 2 | | LRBMHVS | 21 | 20 |
| LRBHSW1 | 3 | | LRBMIAFD | 22 | 40 |
| LRBHSW2 | 4 | | LRBMIBU | 31 | 2 |
| LRBHSW3 | 5 | | LRBMICKC | 22 | 4 |
| LRBHSYS | 1 | 1 | LRBMICTM | 22 | 2 |
| LRBHTER | 0 | 81 | LRBMINTM | 22 | |
| LRBHTIME | C | | LRBMINVP | 24 | 10 |
| LRBHTMC | 2 | 8 | LRBMIPSD | 22 | 80 |
| LRBHTYPE | 0 | | LRBMISEC | 148 | 80 |
| LRBHVS2 | 1 | 80 | LRBMISWL | 22 | 20 |
| LRBMACT | 4 | 4 | LRBMISYC | 22 | 10 |
| LRBMAPR | 149 | 80 | LRBMITOD | 22 | 8 |
| LRBMARV | 34 | 40 | LRBMIVTE | 22 | 1 |
| LRBMCEIA | 20 | | LRBMLNH | 18 | |
| LRBMCIC | 30 | | LRBMMFLG | 149 | |
| LRBMCLB | 5 | 5 | LRBMMOSW | 28 | |

| Name | Hex Offset | Hex Value |
|----------|---------------|--------------|
| LRBMNOIO | 3 | 80 |
| LRBMNVF | 3 | 40 |
| LRBMPDAR | 24 | |
| LRBMPWL | 27 | |
| LRBMRECV | 3 | 4 |
| LRBMRSRC | 24 | 8 |
| LRBMRSRF | 24 | 4 |
| LRBMRSRS | 25 | |
| LRBMSDG | 23 | 1 |
| LRBMSECC | 23 | 4 |
| LRBMSHIR | 23 | 2 |
| LRBMSOFT | 23 | |
| LRBMSSFT | 23 | 80 |
| LRBMSSPD | 23 | 40 |
| LRBMSTSL | 23 | 8 |
| LRBMVSF | 23 | 20 |
| LRBMSYC | 34 | 1 |
| LRBMSYST | 3 | 20 |
| LRBMTCKS | 20 | 8 |
| LRBMTERM | 20 | |
| LRBMTINV | 20 | 1 |
| LRBMTSEC | 20 | 10 |
| LRBMTTHR | 20 | 20 |
| LRBMVAFP | 35 | 1 |
| LRBMVAP | 35 | 8 |
| LRBMVCC | 35 | 1 |
| LRBMVCR | 33 | 4 |
| LRBMVED | 33 | 20 |
| LRBMVFA | 33 | 80 |
| LRBMVFP | 33 | 10 |
| LRBMVGR | 33 | 8 |
| LRBMVIA | 32 | 1 |
| LRBMVMS | 32 | 4 |
| LRBMVPM | 32 | 2 |
| LRBMVPT | 35 | 2 |
| LRBMVST | 33 | 1 |
| LRBMVWP | 32 | 8 |
| LRBMWSC | 1C | |
| LRBNOLOG | 2 | 20 |
| LRBRCUA1 | 2D | |
| LRBRCUA2 | 35 | |
| LRBRDEV1 | 30 | |
| LRBRDEV2 | 38 | |
| LRBRJOB | 18 | |
| LRBROPER | 3 | 20 |
| LRBRPH1 | 2C | |
| LRBRPH2 | 34 | |
| LRBRPRIM | 3 | 80 |
| LRBRSEC | 3 | 40 |
| LRBRYSI | 3 | 10 |
| LRBRVOL1 | 20 | |
| LRBRVOL2 | 26 | |
| LRBSSPSW | 48 | |
| LRBTLNH | 18 | |
| LRBTRACE | 3 | 10 |
| LRBTUSR | 20 | |
| LRBTWSC | 1C | |

LXAT Heading Information

Common Name: LINKAGE INDEX ALLOCATION TABLE
Macro ID: IHALXAT
DSECT Name: LXAT
Owning Component: PC/AUTH (SCXMS)
Eye-Catcher ID: LXAT
 Offset: 0
 Length: 4
Storage Attributes: Subpool: 229
 Key: 0
 Residency: Above 16M line
Size: 8 BYTES PLUS 256 BYTES FOR EACH 32 LX'S
Created by: THE LXAT IS CREATED BY IEAVXMAS DURING NIP RIM PROCESSING. THE LINKAGE INDEX RESERVE SERVICE(IEAVXLRE) WILL EXPAND THE LXAT IN MULTIPLES OF 32 ENTRIES TO CORRESPOND WITH THE EXPANSION IN THE SIZE OF A LINKAGE TABLE WHEN MORE LINKAGE INDEXES ARE REQUIRED BY THE SYSTEM. THE LXAT IS IN THE PAGEABLE PRIVATE STORAGE OF THE PC/AUTH ADDRESS SPACE.
Pointed to by: THE CROSS MEMORY DIRECTORY FIELD XMDLXAT.
Serialization: LOCAL LOCK OF THE PC/AUTH SERVICES ADDRESS SPACE.
Function: CONTAINS INFORMATION ON WHICH LINKAGE INDEXES ARE IN USE.

LXAT Map

| Offsets | | | | | |
|---------|-----|------------|-----|------------|--------------------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | * | LXAT | LINKAGE INDEX ALLOCATION TABLE |
| 0 | (0) | CHARACTER | 8 | LXATHDR | LXAT HEADER |
| 0 | (0) | CHARACTER | 4 | LXATLXAT | LXAT ACRONYM |
| 4 | (4) | UNSIGNED | 2 | LXATHILX | HIGHEST LX CONTAINED IN LXAT |
| 6 | (6) | UNSIGNED | 2 | LXATMSLX | MAXIMUM SYSTEM LX IN LXAT |

Comment

| LXATINCR = 32 = NUMBER OF ENTRIES PER LXAT EXPANSION.
 | LXATMAX = 2047 = MAXIMUM LX VALUE SUPPORTED.

End of Comment

| | | | | | |
|----|-----|-----------|---|--------------|--|
| 8 | (8) | CHARACTER | 8 | LXATINDX (*) | ARRAY OF LINKAGE INDEXES |
| 8 | (8) | UNSIGNED | 2 | LXATASID | ASID OWNING THIS INDEX (VALID ONLY WHEN LXATOWND IS ON) |
| 10 | (A) | UNSIGNED | 2 | LXATBIND | COUNT OF ADDRESS SPACES USING THIS INDEX. (FOR A SYSTEM LX THAT WAS EVER CONNECTED THIS VALUE WILL BE X'FFFF') |
| 12 | (C) | UNSIGNED | 2 | LXATETCT | COUNT OF ENTRY TABLES CONNECTED TO THIS INDEX. (FOR A SYSTEM LX WHICH IS CONNECTED THIS VALUE WILL BE X'FFFF') |
| 14 | (E) | BITSTRING | 1 | LXATFLGS | FLAGS |
| | | 1... | | LXATRIP | RESERVE IN PROCESS FOR THIS LX |
| | | .1.. | | LXATOWND | THIS LX IS RESERVED (OWNED) |
| | | ..1. | | LXATSYS | THIS IS A SYSTEM LX |
| | | ...1 | | LXATDORM | THIS SYSTEM LX IS DORMANT |
| 15 | (F) | UNSIGNED | 1 | LXATRSV2 | RESERVED |

LXAT Constants

| Len | Type | Value | Name | Description |
|-----|---------|-------|----------|--------------------------------------|
| 4 | DECIMAL | 32 | LXATINCR | NUMBER OF ENTRIES PER LXAT EXPANSION |
| 4 | DECIMAL | 2047 | LXATMAX | MAXIMUM LX VALUE SUPPORTED |

LXAT Cross Reference

| Name | Hex Offset | Hex Value |
|----------|------------|-----------|
| LXAT | 0 | |
| LXATASID | 8 | |
| LXATBIND | A | |
| LXATDORM | E | 10 |
| LXATETCT | C | |
| LXATFLGS | E | |
| LXATHDR | 0 | |
| LXATHILX | 4 | |
| LXATINDX | 8 | |
| LXATLXAT | 0 | |
| LXATMSLX | 6 | |
| LXATOWND | E | 40 |
| LXATRIP | E | 80 |
| LXATRSV2 | F | |
| LXATSYS | E | 20 |

MCA Programming Interface information

Programming Interface information

MCA

ONLY the following fields are part of the programming interface information:

- MCAALCNT
- MCAAVAIL
- MCADLANG

End of Programming Interface information

MCA Heading Information

Common Name: Message Communication Area Mapping Macro
Macro ID: CNLMMCA
DSECT Name: MCA
Owning Component: MVS Message Service (SCMMS)
Eye-Catcher ID: 'MCA '
 Offset: 0
 Length: 4
Storage Attributes: Subpool: 228
 Key: 0
 Residency: Above 16 MB in extended CSA
Size: 60 bytes
Created by: CNLSINIT
Pointed to by: SCVTMCA field of the Secondary Communication Vector Table
Serialization: Compare and Swap logic
Function: Used to map the Message Communication Area which contains global control information for the MVS Message Service
 MCA contains a pointer to Message Anchor Block (MAB).

MCA Map

| Offsets | | | | | |
|---------|------|------------|-----|---------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | MCA | MESSAGE COMMUNICATION AREA |
| 0 | (0) | CHARACTER | 4 | MCAACRN | MCA ACRONYM "MCA" |
| 4 | (4) | BITSTRING | 1 | MCAVRSN | MCA VERSION NUMBER |
| | |1 | | \$MCA_VERSION | "X'01" CURRENT MCA VERSION NUMBER |
| 5 | (5) | BITSTRING | 1 | MCAFLAGS | MCA FLAGS |
| | | 1... | | MCAAVAIL | "X'80" MMS IS AVAILABLE |
| | | .1.. | | MCASDTA | "X'40" SET/DISPLAY TASK ACTIVE |
| | | ..1. | | MCAINIT | "X'20" CNLSINIT is executing and will eventually call CNLSSDT |
| 6 | (6) | CHARACTER | 2 | | RESERVED |
| 8 | (8) | ADDRESS | 4 | MCAMABP | ADDRESS OF MAB |
| 12 | (C) | SIGNED | 4 | MCASPCNO | SET MMS PC NUMBER |
| 16 | (10) | SIGNED | 4 | MCADPCNO | DISPLAY MMS PC NUMBER |
| 20 | (14) | SIGNED | 4 | MCATPCNO | TRANSLATE MESSAGE PC NUMBER |
| 24 | (18) | SIGNED | 4 | MCAQPCNO | QUERY LANGUAGE PC NUMBER |
| 28 | (1C) | CHARACTER | 3 | MCADLANG | MCA DEFAULT LANGUAGE CODE |
| 31 | (1F) | CHARACTER | 1 | | RESERVED |
| 32 | (20) | SIGNED | 4 | MCAALCNT | ACTIVE LANGUAGE COUNT |
| 36 | (24) | SIGNED | 4 | | RESERVED |
| 40 | (28) | SIGNED | 4 | MCAXMTOK | CROSS MEMORY ENTRY TABLE TOKEN |
| 44 | (2C) | CHARACTER | 16 | | RESERVED |

MCA Cross Reference

| Name | Hex Offset | Hex Value |
|---------------|-----------------------|----------------------|
| \$MCA_VERSION | 4 | 1 |
| MCA | 0 | |
| MCAACRN | 0 | |
| MCAALCNT | 20 | |
| MCAAVAIL | 5 | 80 |
| MCADLANG | 1C | |
| MCADPCNO | 10 | |
| MCAFLAGS | 5 | |
| MCAINIT | 5 | 20 |
| MCAMABP | 8 | |
| MCAQPCNO | 18 | |
| MCASDTA | 5 | 40 |
| MCASPCNO | C | |
| MCATPCNO | 14 | |
| MCAVRSN | 4 | |
| MCAXMTOK | 28 | |

MCHEAD Programming Interface information

Programming Interface information

MCHEAD

INCLUDE ONLY

End of Programming Interface information

MCHEAD Heading Information

Common Name: Monitor Call Routing Table Head (MCHEAD)
Macro ID: MCHEAD
DSECT Name: MCHEAD
Owning Component: GTF (SC111)
Eye-Catcher ID: MCHEAD
Offset: 0
Length: 8
Storage Attributes: Main Storage: 60 bytes
Virtual Storage: 60 bytes
Auxiliary Storage: 0 bytes
Subpool: None
Key: 0
Data Space: None
Residency: Nucleus
Size: 60 bytes
Created by: IEAVNP17 initializes the address of SETEVENT entries during NIP.
Pointed to by: CVTGTFA which is set up by a VCON when the nucleus is linkedited. MCHEAD is contained in AHLMCIH.
Serialization: None.
Function: Describe the monitor call routine service queue head, the beginning of all tables for monitor call event routing.

MCHEAD Map

| Offsets | | | | | |
|---------|------|------------|-----|--------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | MCHEAD | |
| 0 | (0) | SIGNED | 4 | (0) | |
| 0 | (0) | CHARACTER | 8 | MCHIDEN | ECBDIC IDENTIFIER - MCHEAD |
| 8 | (8) | ADDRESS | 4 | MCHCUR | PTR TO CURRENT MCCE |
| 12 | (C) | ADDRESS | 4 | MCHCNT | NO. OF ROUTINES USING CURRENT MCCE |
| 16 | (10) | BITSTRING | 4 | MCHCTL (0) | CURRENT MASK OF ACTIVE CLASSES IN CR8 |
| 16 | (10) | BITSTRING | 2 | | LEFT HALFWORD. |
| 18 | (12) | BITSTRING | 2 | MCHCTLRH (0) | Right halfword containing the monitor call masks |
| 18 | (12) | BITSTRING | 1 | MCHCT0#E | Monitor call mask for classes 0-E |
| | |1 | | MCHCTF | "X'01" Monitor call mask for class F - the IGVDIAGB class |
| 20 | (14) | ADDRESS | 4 | MCHDIS | PTR USED TO DISABLE MCEE/MCCLE |
| 24 | (18) | SIGNED | 4 | MCHFLGS (0) | FLAG BYTES |
| 24 | (18) | BITSTRING | 1 | MCHFLG1 | FLAG BYTE 1 |
| | | 1... | | MCHACT | "X'80" MC ROUTING ACTIVE INDICATOR |
| | | .1... | | MCHTERM | "X'40" MC ROUTING TERMINATION INDICATOR |
| | | ...1 | | MCHVENQ | "X'10" Extends the serialization of the MC control blocks (that is required but not provided by the ENQ of the GTF resource) to cover the time between the SETEVENT INIT and the SETEVENT FREE |
| 25 | (19) | BITSTRING | 3 | | |
| 28 | (1C) | SIGNED | 4 | (0) | SKIP TO NEXT WORD |
| 28 | (1C) | ADDRESS | 4 | MCHSETE | PTR TO ENABLED ENTRY TO AHLSETEV |
| 32 | (20) | ADDRESS | 4 | MCHSETD | PTR TO DISABLED ENTRY TO AHLSETEV |
| 36 | (24) | ADDRESS | 4 | MCHMCER | ADDRESS OF MC ROUTER AHLMCER |
| 40 | (28) | ADDRESS | 4 | MCHFRRAD | ADDR OF AHLMCIH RECOVERY CODE |
| 44 | (2C) | ADDRESS | 4 | MCHMAXGT | MAXIMUM AMOUNT OF GTRACE DATA |
| 48 | (30) | ADDRESS | 4 | | RESERVED |
| 52 | (34) | ADDRESS | 4 | MCHMCIHC | ADDR OF AHLMCIHC ENTRY IN AHLMCIH |
| 56 | (38) | ADDRESS | 4 | MCHUTEST | ADDRESS OF SERVICE IN AHLMCIH TO DETERMINE IF SPECIFIC USER EID WAS SPECIFIED ON START OF GTF |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|--|
| Dec | Hex | | | | |
| 60 | (3C) | ADDRESS | 4 | MCHSETDE | ENDING ADDRESS OF THE LOAD MODULE AHLSETD |
| 64 | (40) | ADDRESS | 4 | MCHUTES0 | Address of service in AHLMCIH to determine if specific user EID was specified on start of GTF (GTRACE TEST=YES,DISABLED=YES) |

MCHEAD Cross Reference

| Name | Hex Offset | Hex Value |
|----------|---------------|--------------|
| MCHACT | 18 | 80 |
| MCHCNT | C | |
| MCHCTF | 12 | 1 |
| MCHCTL | 10 | |
| MCHCTLRH | 12 | |
| MCHCT0#E | 12 | |
| MCHCUR | 8 | |
| MCHDIS | 14 | |
| MCHEAD | 0 | |
| MCHFLGS | 18 | |
| MCHFLG1 | 18 | |
| MCHFRRAD | 28 | |
| MCHIDEN | 0 | |
| MCHMAXGT | 2C | |
| MCHMCER | 24 | |
| MCHMCIHC | 34 | |
| MCHSETD | 20 | |
| MCHSETDE | 3C | |
| MCHSETE | 1C | |
| MCHTERM | 18 | 40 |
| MCHUTEST | 38 | |
| MCHUTES0 | 40 | |
| MCHVENQ | 18 | 10 |

MCSCSA Heading Information

Common Name: MCS Extended Console Status Area
Macro ID: IEAVG131
DSECT Name: MCSCSA
Owning Component: Communications Task (SC1CK)
Eye-Catcher ID: MCSC
 Offset: 0
 Length: 4
Storage Attributes: Subpool: N/A
 Key: N/A
 Residency: Message data space for the address space which owns the Extended MCS Console.
Size: 52 bytes
Created by: IEAVH605
Pointed to by: MCSCPTR - Pointer maintained in users dynamic
 MCSCALET - ALET maintained in users dynamic
Serialization: NONE
 DISTRIBUTION = AMACLIB
Function: The MCS Extended Console Status Area Contains the Status of the Messages in a Extended Consoles Message Data Space.

MCSCSA Map

| Offsets | | | | | |
|---------|------|------------|-----|------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | MCSCSA | - MCS Extended Console Status Area |
| 0 | (0) | CHARACTER | 4 | MCSCID | MCSCSA Acronym 'MCSC' |
| 4 | (4) | BITSTRING | 1 | MCSCVER | Version Level |
| 4 | (4) | X'1' | 0 | MCSC410 | "1" Version Level - HBB4410 |
| 4 | (4) | X'1' | 0 | MCSCVERS | "MCSC410" Version Level - Current |
| 5 | (5) | BITSTRING | 1 | | Reserved |
| 6 | (6) | SIGNED | 2 | MCSCSTOR | MegaBytes Allocated for Messages |
| 8 | (8) | SIGNED | 4 | MCSCCNID | Console ID of message owner |
| 12 | (C) | ADDRESS | 4 | MCSCNUSE | Address of field which indicates total space in use |
| 16 | (10) | SIGNED | 4 | MCSCCTDEP | Total Message Queue Depth |
| 20 | (14) | SIGNED | 4 | MCSCUDEP | Message Queue Depth for Unsolicited Messages |
| 24 | (18) | SIGNED | 4 | MCSCDDEP | Message Queue Depth for Delivered (In Use) Messages |
| 28 | (1C) | SIGNED | 4 | MCSCPDEP | Maximum message queue depth permitted |
| 32 | (20) | BITSTRING | 1 | MCSCMFRM | Message format (Note: The bit offsets correspond to the UCMDISP2 field in the UCM |
| | | 1... | | MCSCDTIM | "X'80" Display timestamp |
| | | .1.. | | MCSCDJOB | "X'40" Display jobname |
| | |1.. | | MCSCDSYS | "X'04" Display system name |
| | |1. | | MCSCDX | "X'02" Don't display system name and jobname |

MCSCSA Cross Reference

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---|------|------------|-----|--------------|--------------------------------------|
| Dec | Hex | | | | |
| Comment | | | | | |
| <p>The next four fields indicate the status of queuing at the time when the ALERT ecb was posted. The value one will be stored into each field for which the following queuing condition exists:</p> <ol style="list-style-type: none">1. Memory Limit - no more cells in the data space. Queueing will be halted.2. Queue Depth Limit - the console's message queue has reached the maximum depth. Queueing will be halted.3. Internal Error - an error occurred while manipulating the message queues. Queueing will be halted.4. Alert Percentage - the number of messages on the queue has reached a certain percentage of the maximum queue depth, as defined by the ALERT percentage. Queueing will continue. <p>The next field after these four will be used to request that the extended console be deactivated. The value one will be stored in the MCSCSUSP field.</p> <ol style="list-style-type: none">5. Suspend Operator - the console is considered switched by the system. The extended console should be deactivated. | | | | | |
| End of Comment | | | | | |
| 33 | (21) | CHARACTER | 4 | MCSCQSTA (0) | Queuing Status |
| 33 | (21) | BITSTRING | 1 | MCSCMLIM | Queuing Stopped by Memory Limit |
| 34 | (22) | BITSTRING | 1 | MCSCDLIM | Queuing Stopped by Queue Depth Limit |
| 35 | (23) | BITSTRING | 1 | MCSCINTR | Queuing Stopped by Internal Error |
| 36 | (24) | BITSTRING | 1 | MCSCALRT | Queuing Reached Alert Percentage |
| 37 | (25) | BITSTRING | 1 | MCSCSUSP | Request to suspend the operator |
| 38 | (26) | CHARACTER | 10 | | Reserved |
| 48 | (30) | ADDRESS | 4 | MCSCOEXT | Pointer to O.C.O extension |
| 52 | (34) | SIGNED | 4 | (0) | |
| 52 | (34) | X'34' | 0 | MCSCEND | *** End of MCSCSA non-O.C.O portion |

MCSCSA Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|-----------|------------|-----------|---------|------------|-----------|
| MCSCALRT | 24 | | MCSC410 | 4 | 1 |
| MCSCCNID | 8 | | | | |
| MCSCDDEP | 18 | | | | |
| MCSCDJOB | 20 | 40 | | | |
| MCSCDLIM | 22 | | | | |
| MCSCDSYS | 20 | 4 | | | |
| MCSCDTIM | 20 | 80 | | | |
| MCSCDX | 20 | 2 | | | |
| MCSCEND | 34 | 34 | | | |
| MCSCID | 0 | | | | |
| MCSCINTR | 23 | | | | |
| MCSCMFRM | 20 | | | | |
| MCSCMLIM | 21 | | | | |
| MCSCNUSE | C | | | | |
| MCSCOEXT | 30 | | | | |
| MCSCPDEP | 1C | | | | |
| MCSCQSTA | 21 | | | | |
| MCSCSA | 0 | | | | |
| MCSCSTOR | 6 | | | | |
| MCSCSUSP | 25 | | | | |
| MCSCCTDEP | 10 | | | | |
| MCSCUDEP | 14 | | | | |
| MCSCVER | 4 | | | | |
| MCSCVERS | 4 | 1 | | | |

MCSOP Programming Interface information

Programming Interface information

MCSOP

End of Programming Interface information

MCSOP Heading Information

Common Name: MCSOPER OPERPARM Mapping
Macro ID: IEZVG111
DSECT Name: MCSOPPRM, MCSOTBL, MCSOMAP
Owning Component: Communications Task (SC1CK)
Eye-Catcher ID: None
Storage Attributes: Subpool: Determined by invoker of MCSOPER macro
 Key: 0-7
 Residency: Any, determined by invoker of MCSOPER macro
Size: MCSOPPRM - 60 bytes
 MCSOTBL - maximum systems in sysplex * 8 + 4
Created by: Invoker of MCSOPER
Pointed to by: Invoker of MCSOPER
Serialization: None
Function: Mapping of the Operator Data area
 referenced by MCSOPER ACTIVATE processing
 via the OPERPARM parameter value.

MCSOP Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---|-----|------------|-----|--------------|-------------------------------|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | MCSOPPRM | OPERPARM Attributes |
| 0 | (0) | SIGNED | 4 | (0) | Start on a fullword boundry |
| Comment | | | | | |
| ----- | | | | | |
| Message Data Space Size - The Maximum size for the Message data space, in MegaBytes. | | | | | |
| ----- | | | | | |
| End of Comment | | | | | |
| 0 | (0) | SIGNED | 2 | MCSOSTOR | Limit Value |
| Comment | | | | | |
| ----- | | | | | |
| Authority Level - Two bit flags representing the Authority levels. MASTER, ALL, (SYS,IO,CONS), and INFO are mutually exclusive values. SYS, IO, and CONS can be mixed. | | | | | |
| ----- | | | | | |
| End of Comment | | | | | |
| 2 | (2) | BITSTRING | 2 | MCSOAUTH (0) | AUTHORITY LEVEL |
| 2 | (2) | BITSTRING | 1 | MCSOATH1 | Authority flag 1 |
| | | 1... .. | | MCSOMSTR | "X'80" MASTER |
| | | .1... .. | | MCSOAALL | "X'40" ALL (SYS,IO, AND CONS) |
| | | ..1. | | MCSOASYS | "X'20" SYS |
| | | ...1 | | MCSOAIO | "X'10" I/O |
| | | 1... | | MCSOCONS | "X'08" CONS |
| | |1.. | | MCSOINFO | "X'04" INFO (DEFAULT) |
| 3 | (3) | BITSTRING | 1 | MCSOATH2 | Authority flag 2 - reserved |

| Offsets | | | | | |
|---|-----|------------|-----|--------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| Comment | | | | | |
| ----- | | | | | |
| Message Form - Indicates how a message is displayed. | | | | | |
| ----- | | | | | |
| End of Comment | | | | | |
| 4 | (4) | BITSTRING | 2 | MCSOMFRM (0) | OPERATORS MESSAGE FORM |
| 4 | (4) | BITSTRING | 1 | MCSOMFM1 | Message Form flag 1 |
| | | 1... | | MCSOMFT | "X'80" Display with a TIME STAMP |
| | | .1.. | | MCSOMFS | "X'40" Display with the SYSTEM NAME |
| | | ..1. | | MCSOMFJ | "X'20" Display with JOB ID/NAME |
| | | ...1 | | MCSOMFM | "X'10" Display without SYSTEM,TIME, or JOB (DEFAULT) |
| | | 1... | | MCSOMFX | "X'08" Suppress SYSTEM and JOB names |
| 5 | (5) | BITSTRING | 1 | MCSOMFM2 | Message Form flag 2 |
| Comment | | | | | |
| ----- | | | | | |
| Message Level - The level of messages to be received by the console. | | | | | |
| ----- | | | | | |
| End of Comment | | | | | |
| 6 | (6) | BITSTRING | 2 | MCSOMLVL (0) | MESSAGE LEVEL |
| 6 | (6) | BITSTRING | 1 | MCSOMLV1 | Message Level flag 1 |
| | | 1... | | MCSOMLR | "X'80" Receive WTORs |
| | | .1.. | | MCSOMLI | "X'40" Receive IMMEDIATE ACTION messages |
| | | ..1. | | MCSOMLCE | "X'20" Receive CRITICAL EVENTUAL ACTION msgsg |
| | | ...1 | | MCSOMLE | "X'10" Receive EVENTUAL ACTION messages |
| | | 1... | | MCSOMLIN | "X'08" Receive INFORMATIONAL messages |
| | |1.. | | MCSOMLBC | "X'04" Receive BROADCAST messages |
| | |1. | | MCSOMLAL | "X'02" Receive ALL message levels (DEFAULT) |
| 7 | (7) | BITSTRING | 1 | MCSOMLV2 | Message Level flag 2 |
| Comment | | | | | |
| ----- | | | | | |
| Message Type - This is the MONITOR value. It indicates what events the console will monitor. | | | | | |
| ----- | | | | | |
| End of Comment | | | | | |
| 8 | (8) | BITSTRING | 2 | MCSOMSGT (0) | MESSAGE TYPE |
| 8 | (8) | BITSTRING | 1 | MCSOMTP1 | Message Type flag 1 |
| | | 1... | | MCSOMTJN | "X'80" Monitor JOB NAMES |
| | | .1.. | | MCSOMTJT | "X'40" Monitor JOB NAMES, display w/time |
| | | ..1. | | MCSOMTSS | "X'20" Monitor SESSIONS |
| | | ...1 | | MCSOMTST | "X'10" Monitor SESSIONS, display w/time |
| | | 1... | | MCSOMTS | "X'08" Monitor STATUS of freed data sets |
| 9 | (9) | BITSTRING | 1 | MCSOMTP2 | Message Type flag 2 |
| Comment | | | | | |
| ----- | | | | | |
| Routing Codes - A 128 bit string where each bit represents a Route Code. A flag is included for ALL and NONE. | | | | | |
| ----- | | | | | |
| End of Comment | | | | | |
| 10 | (A) | CHARACTER | 17 | MCSORCDT (0) | Routing Code data |
| 10 | (A) | BITSTRING | 1 | MCSORCFL | Routing Code flag |
| | | 1... | | MCSORCAL | "X'80" ALL Routing Codes |
| | | .1.. | | MCSORCNO | "X'40" NO Routing Codes (DEFAULT) |

MCSOP Map

| Offsets | | | | | |
|--|------|------------|-----|------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 11 | (B) | CHARACTER | 16 | MCSORTCD | ROUTING CODES (If not ALL or NONE) |
| Comment | | | | | |
| ----- | | | | | |
| Log Command Response - Should the Command Response of a console be logged in the MCS Hardcopy Log. | | | | | |
| ----- | | | | | |
| End of Comment | | | | | |
| 27 | (1B) | BITSTRING | 1 | MCSOLOGC | LOG COMMAND RESPONSE Value |
| | | 1... | | MCSOLOGS | "X'80" SYSTEM - Log the response (DEFAULT) |
| | | .1... | | MCSOLOGN | "X'40" NO - Do not log the response |
| Comment | | | | | |
| ----- | | | | | |
| Migration ID - Should the Console be assigned a 1 byte migration ID. | | | | | |
| ----- | | | | | |
| End of Comment | | | | | |
| 28 | (1C) | BITSTRING | 1 | MCSOMIG | MIGRATION ID Flags |
| | | 1... | | MCSOMIGY | "X'80" YES - Assign an ID |
| | | .1... | | MCSOMIGN | "X'40" NO - Don't Assign an ID (DEFAULT) |
| Comment | | | | | |
| ----- | | | | | |
| DOM - Indicates what type, if any, of Delete Operator Message (DOM) the console will receive. Normal will queue DOMs by the message queuing criteria. All will queue all DOMs. None will keep and DOMs from being sent to the console. | | | | | |
| ----- | | | | | |
| End of Comment | | | | | |
| 29 | (1D) | BITSTRING | 1 | MCSODOM | DOM Value |
| | | 1... | | MCSODOMN | "X'80" NORMAL (DEFAULT) |
| | | .1... | | MCSODOMA | "X'40" ALL |
| | | ..1. | | MCSODOMX | "X'20" NONE |
| Comment | | | | | |
| ----- | | | | | |
| Key - The eight byte character name used to associate groups of consoles. | | | | | |
| ----- | | | | | |
| End of Comment | | | | | |
| 30 | (1E) | CHARACTER | 8 | MCSOKEY | Key assigned to console entry |
| Comment | | | | | |
| ----- | | | | | |
| Command System - The system where all commands from this console will be sent to execute. A ' ' will be converted to the currently executing system name. | | | | | |
| ----- | | | | | |
| End of Comment | | | | | |
| 38 | (26) | CHARACTER | 8 | MCSOCSNM | Command System Name |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|--|------|------------|-----|------------|--|
| Dec | Hex | | | | |
| Comment | | | | | |
| ----- | | | | | |
| ALTGRP - The alternate group of consoles that will be selected for backup in the event of console failure | | | | | |
| ----- | | | | | |
| End of Comment | | | | | |
| 46 | (2E) | CHARACTER | 8 | MCSOALGP | Alternate group name |
| Comment | | | | | |
| ----- | | | | | |
| MSCOPE data - The systems for which this console is eligible to receive messages from. If the console is to be scoped to all systems, then the user sets MCSOSALL on. If a specific list of system names is to be specified, then MCSOSLST is set on and MCSOMSPT is set to the address of a structure containing a list of systems. This structure is mapped by the DSECT MCSOTBL. | | | | | |
| ----- | | | | | |
| End of Comment | | | | | |
| 54 | (36) | BITSTRING | 1 | MCSOMSFG | MSCOPE flags |
| | | 1... | | MCSOSALL | "X'80" *ALL specified for MSCOPE |
| | | .1.. | | MCSOSLST | "X'40" List of MSCOPE values specified |
| 55 | (37) | BITSTRING | 1 | | reserved for alignment |
| 56 | (38) | ADDRESS | 4 | MCSOMSPT | Pointer to a list of MSCOPE values |
| 60 | (3C) | BITSTRING | 1 | MCSOMISC | Miscellaneous Routing Information |
| Comment | | | | | |
| ----- | | | | | |
| Undelivered - Should the Console be sent UD messages or not. | | | | | |
| ----- | | | | | |
| End of Comment | | | | | |
| | | 1... | | MCSOUDY | "X'80" Yes - Display UD messages |
| | | .1.. | | MCSOUDN | "X'40" No - Don't display UD messages DEFAULT |
| Comment | | | | | |
| ----- | | | | | |
| Automation - Should the Console be sent automatable messages | | | | | |
| ----- | | | | | |
| End of Comment | | | | | |
| | | ..1. | | MCSOAUTY | "X'20" YES - Queue automatable messages |
| | | ...1 | | MCSOAUTN | "X'10" No - Don't queue automatable messages |
| Comment | | | | | |
| ----- | | | | | |
| Hardcopy - Should the Console be sent the hardcopy message set | | | | | |
| ----- | | | | | |
| End of Comment | | | | | |
| | | 1... | | MCSOHDY | "X'08" YES - receive hardcopy message set |
| | |1.. | | MCSOHDCN | "X'04" No - Don't receive hardcopy message set DEFAULT |
| 61 | (3D) | BITSTRING | 1 | MCSOFLAG | Flags byte |

MCSOP Cross Reference

| Offsets | | | | | |
|--|------|------------|-----|----------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| | | | | Comment | |
| ----- | | | | | |
| Overriding of security product: The following will be the order of processing for OPERPARMs as determined by the following bits: | | | | | |
| MCSOVRDY = ON : Yes - Override security product | | | | | |
| Processing will use this data area (IEZVG111) to set the extended console's attributes. | | | | | |
| MCSOVRDN = ON : No - Don't override security product (DEFAULT) | | | | | |
| Processing will first search security security product for an OPERPARM segment. | | | | | |
| If no segment exists, processing will then use this data area to set the extended console's attributes | | | | | |
| ----- | | | | | |
| | | | | End of Comment | |
| | | 1... | | MCSOVRDY | "X'80" Yes - Override security product |
| | | .1.. | | MCSOVRDN | "X'40" No - Don't override security product (DEFAULT) |
| 62 | (3E) | BITSTRING | 6 | | Reserved |
| 62 | (3E) | X'44' | 0 | MCSOPLN | "*-MCSOPPRM" |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|--------------|-----------------------------------|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | MCSOTBL | Table pointed to by MCSPMSPT |
| 0 | (0) | SIGNED | 4 | MCSOMSNM | Number of MSCOPE values specified |
| 4 | (4) | CHARACTER | 8 | MCSOTSYS (8) | Storage for system names |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|------------|-------------------------------------|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | MCSOMAP | Template to be mapped over MCSOTSYS |
| 0 | (0) | SIGNED | 4 | (0) | Put on word boundary |
| 0 | (0) | CHARACTER | 8 | MCSOSYSE | System name entry |

MCSOP Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| MCSOAALL | 2 | 40 | MCSOKEY | 1E | |
| MCSOAIO | 2 | 10 | MCSOLOGC | 1B | |
| MCSOALGP | 2E | | MCSOLOGN | 1B | 40 |
| MCSOASYS | 2 | 20 | MCSOLOGS | 1B | 80 |
| MCSOATH1 | 2 | | MCSOMAP | 0 | |
| MCSOATH2 | 3 | | MCSOMFJ | 4 | 20 |
| MCSOAUTH | 2 | | MCSOMFM | 4 | 10 |
| MCSOAUTN | 3C | 10 | MCSOMFM1 | 4 | |
| MCSOAUTY | 3C | 20 | MCSOMFM2 | 5 | |
| MCSOCONS | 2 | 8 | MCSOMFRM | 4 | |
| MCSOCSNM | 26 | | MCSOMFS | 4 | 40 |
| MCSODOM | 1D | | MCSOMFT | 4 | 80 |
| MCSODOMA | 1D | 40 | MCSOMFX | 4 | 8 |
| MCSODOMN | 1D | 80 | MCSOMIG | 1C | |
| MCSODOMX | 1D | 20 | MCSOMIGN | 1C | 40 |
| MCSOFLAG | 3D | | MCSOMIGY | 1C | 80 |
| MCSOHDCN | 3C | 4 | MCSOMISC | 3C | |
| MCSOHDCY | 3C | 8 | MCSOMLAL | 6 | 2 |
| MCSOINFO | 2 | 4 | MCSOMLBC | 6 | 4 |

| Name | Hex Offset | Hex Value |
|----------|---------------|--------------|
| MCSOMLCE | 6 | 20 |
| MCSOMLE | 6 | 10 |
| MCSOMLI | 6 | 40 |
| MCSOMLIN | 6 | 8 |
| MCSOMLR | 6 | 80 |
| MCSOMLV | 6 | |
| MCSOMLV1 | 6 | |
| MCSOMLV2 | 7 | |
| MCSOMSFG | 36 | |
| MCSOMSGT | 8 | |
| MCSOMSNM | 0 | |
| MCSOMSPT | 38 | |
| MCSOMSTR | 2 | 80 |
| MCSOMTJN | 8 | 80 |
| MCSOMTJT | 8 | 40 |
| MCSOMTP1 | 8 | |
| MCSOMTP2 | 9 | |
| MCSOMTS | 8 | 8 |
| MCSOMTSS | 8 | 20 |
| MCSOMTST | 8 | 10 |
| MCSOPLN | 3E | 44 |
| MCSOPPRM | 0 | |
| MCSORCAL | A | 80 |
| MCSORCDT | A | |
| MCSORCFL | A | |
| MCSORCNO | A | 40 |
| MCSORTCD | B | |
| MCSOSALL | 36 | 80 |
| MCSOSLST | 36 | 40 |
| MCSOSTOR | 0 | |
| MCSOSYSE | 0 | |
| MCSOTBL | 0 | |
| MCSOTSYS | 4 | |
| MCSOUDN | 3C | 40 |
| MCSOUDY | 3C | 80 |
| MCSOVRDN | 3D | 40 |
| MCSOVRDY | 3D | 80 |

MCT Heading Information

Common Name: System Resource Manager Storage Management Control Table
Macro ID: IRAMCT
DSECT Name: MCT (unless DSECT=NO is coded)
Owning Component: System Resource Manager (SC1CX)
Eye-Catcher ID: MCT
 Offset: 0
 Length: CHAR(4)
Storage Attributes: Subpool: Nucleus
 Key: 0
 Residency: Nucleus (above 16M line)
Size: 616 bytes
Created by: Assembled into nucleus module IRARMCNS
Pointed to by: RMCTMCT field of the RMCT data area
Serialization: SRM lock
Function: Contains storage management control information
 for use by SRM storage management modules

MCT Map

| Offsets | | | | | |
|-------------------------------|------|------------|-----|------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 712 | MCT | STORAGE CONTROL TABLE |
| 0 | (0) | CHARACTER | 4 | MCTMCT | ACRONYM IN EBCDIC -MCT- |
| Comment | | | | | |
| STORAGE CONTROL CONSTANTS | | | | | |
| POINTERS TO SHORTAGE MESSAGES | | | | | |
| End of Comment | | | | | |
| 4 | (4) | ADDRESS | 4 | MCCMS100 | SQA SHORTAGE MESSAGE ADDRESS |
| 8 | (8) | ADDRESS | 4 | MCCMS101 | CRITICAL SQA SHORTAGE MSG ADDR |
| 12 | (C) | ADDRESS | 4 | MCCMS102 | SQA SHORTAGE RELIEVED MSG ADDR |
| 16 | (10) | ADDRESS | 4 | MCCMS200 | AUX SHORTAGE MESSAGE ADDRESS |
| 20 | (14) | ADDRESS | 4 | MCCMS201 | CRITICAL AUX SHORTAGE MSG ADDR |
| 24 | (18) | ADDRESS | 4 | MCCMS202 | AUX SHORTAGE RELIEVED MSG ADDR |
| 28 | (1C) | ADDRESS | 4 | MCCMS203 | AUX SHORTAGE USER MESSAGE ADDRESS |
| 32 | (20) | ADDRESS | 4 | MCCMS400 | FIX PAGE SHORTAGE MSG ADDR |
| 36 | (24) | ADDRESS | 4 | MCCMS401 | CRITICAL FIX PAGE SHORTAGE MSG ADDR |
| 40 | (28) | ADDRESS | 4 | MCCMS402 | FIX PAGE SHORTAGE RELIEVED MSG ADDR |
| 44 | (2C) | ADDRESS | 4 | MCCMS403 | FIX PAGE USER MESSAGE ADDRESS |
| 48 | (30) | ADDRESS | 4 | MCCMS500 | SWAP IN FAIL USER MESSAGE ADDRESS |
| 52 | (34) | ADDRESS | 4 | MCCMS501 | PTR TO SWAP IN MSG |
| Comment | | | | | |
| STORAGE CONTROL CONSTANTS | | | | | |
| End of Comment | | | | | |
| 56 | (38) | SIGNED | 2 | MCCPLUS | AVAILABLE FRAME QUEUE DELTA FOR STEALING |
| 58 | (3A) | SIGNED | 2 | MCCSTLCT | NO OF PAGES TO STEAL FROM EACH ADSPC OR COMMON EACH STEAL PASS WITH LOW UICS |
| 60 | (3C) | SIGNED | 2 | MCCHSTLC | NO OF PAGES TO STEAL FROM EACH ADSPC OR COMMON FOR STEAL PASS WITH HIGH UICS |
| 62 | (3E) | SIGNED | 2 | MCCSIPRT | TIME BETWEEN PAGE-IN RATE CALCULATIONS |
| 64 | (40) | SIGNED | 2 | MCCDFRPC | DOUBLE FRAME REPLENISH VALUE |
| 66 | (42) | SIGNED | 2 | MCCDFREC | DOUBLE FRAME RELEASE VALUE |

MCT Map

| Offsets | | | | | |
|----------------------------------|------|------------|-----|------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 68 | (44) | SIGNED | 2 | MCCSPCPT | System Paging Cost Percentage threshold for determining if any address spaces should be monitored |
| 70 | (46) | SIGNED | 2 | MCCAPCPT | Address Space Page Cost Percent threshold for determining if this address space should be monitored |
| 72 | (48) | ADDRESS | 4 | MCCDUMP | DUMPSRV OUCB ADDRESS |
| Comment | | | | | |
| Lengths used by SMF ----- | | | | | |
| End of Comment | | | | | |
| 76 | (4C) | UNSIGNED | 2 | MCCICSP | Length of IRAICSP.ICSP |
| 78 | (4E) | UNSIGNED | 2 | MCCRQSVL | Length of IRARQSRV.RQSV |
| 80 | (50) | UNSIGNED | 2 | MCCE39PL | Length of IRAE39P.E39P |
| 82 | (52) | UNSIGNED | 2 | MCCRSDL | Length of IRARSD.RSD |
| Comment | | | | | |
| ----- | | | | | |
| End of Comment | | | | | |
| 84 | (54) | UNSIGNED | 2 | MCCOUCBL | Length of IRAOUCB.OUCB |
| 86 | (56) | SIGNED | 2 | MCCR5 | |
| 88 | (58) | SIGNED | 2 | MCCFXBPR | Fixed Below High Percentage Threshold |
| 90 | (5A) | SIGNED | 2 | MCCSIGRS | WORKING SET SIZE TARGET FOR ENQ/DEQ ADDRESS SPACE |
| 92 | (5C) | SIGNED | 4 | MCCR7 | |
| 96 | (60) | SIGNED | 4 | MCCR8 | |
| 100 | (64) | SIGNED | 4 | MCCR9 | |
| Comment | | | | | |
| AUX STORAGE MONITORING CONSTANTS | | | | | |
| End of Comment | | | | | |
| 104 | (68) | SIGNED | 2 | MCCASMT1 | FIRST AUX SHORTAGE THRESHOLD |
| 106 | (6A) | SIGNED | 2 | MCCASMT2 | SECOND AUX SHORTAGE THRESHOLD |
| 108 | (6C) | CHARACTER | 0 | MCCEND | END OF MCT CONSTANTS |
| Comment | | | | | |
| STORAGE CONTROL VARIABLES | | | | | |
| End of Comment | | | | | |
| 108 | (6C) | BITSTRING | 1 | MCVSIPLG | STORAGE ISOLATION FLG |
| | | 1... | | MCVSIPG | ADS STG ISOL IN EFFECT |
| | | .1.. | | MCVSICM | CMN STG ISOL IN EFFECT |
| | | ..1. | | MCVSIWS | CMN STORAGE PROTECTED BY WORKING SET SIZE |
| | | ...1 | | MCVSIPI | CMN STORAGE PROTECTED BY PAGE IN RATE |
| | | 1111 | | MCVSIR4 | RESERVED |
| 109 | (6D) | UNSIGNED | 1 | MCCLIPT | Large increase percentage threshold for fixed below pages |
| 110 | (6E) | UNSIGNED | 1 | MCCASPCT | % OF AUX STORAGE TO RECOMMEND |
| 111 | (6F) | UNSIGNED | 1 | MCCRSPCT | % OF REAL STORAGE TO RECOMMEND |
| 112 | (70) | SIGNED | 4 | MCVSTGPT | TIME OF PREVIOUS STGTEST CALL |
| 116 | (74) | SIGNED | 2 | MCVSIPL | CMN LOW PAGE-IN RATE |
| 118 | (76) | SIGNED | 2 | MCVSIPL | CMN HIGH PAGE-IN RATE |
| 120 | (78) | SIGNED | 4 | MCVSIBP | CMN BASE PAGE-IN CNT |
| 124 | (7C) | UNSIGNED | 4 | MCVSIBT | Base TOD value for page-in rate calculations. In PR1 we will check, if current time-MCVSIBT is less than MCCSIPRT. IF yes, page-in rates will be recalculated @64BITSRM |
| 128 | (80) | SIGNED | 2 | MCVSIPR | CMN RECENT PAGEIN RATE |
| 130 | (82) | SIGNED | 2 | MCVAMSGI | Count of the number of 204E msgs that have been issued but not deleted from queue of retrievable messages |
| 132 | (84) | SIGNED | 2 | MCVSTCRI | HIGHEST SYSTEM UIC |

| Offsets | | | | | |
|---------|------|------------|-----|------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 134 | (86) | SIGNED | 2 | MCVFRcnt | SAVED AVAILABLE EXPANDED STORAGE OK THRESHOLD (RCEAECOK) |
| 136 | (88) | SIGNED | 4 | MCVAVQC | COUNT OF AVQLOWS |
| 140 | (8C) | UNSIGNED | 4 | MCVNWSMB | policy interval base for rcenwsf |
| 144 | (90) | UNSIGNED | 4 | MCVWSMB | policy interval base for rcwdsne |
| 148 | (94) | SIGNED | 2 | MCCR12 | |
| 150 | (96) | SIGNED | 2 | MCCAMSGT | Aux storage shortage msg threshold |
| 152 | (98) | UNSIGNED | 4 | MCVESWB | policy interval base for rceeswt |
| 156 | (9C) | SIGNED | 4 | MCCR14 | |
| 160 | (A0) | SIGNED | 4 | MCCR15 | |
| 164 | (A4) | SIGNED | 4 | MCCR16 | |

Comment

MEMORY CONTROL FLAGS

End of Comment

| | | | | | |
|-----|------|------------|---|----------|--|
| 168 | (A8) | BITSTRING | 1 | MCTSFLGS | FLAGS MODIFIED UNDER SALLOC LCK |
| | | 1... | | MCTSQA1 | SQA FIRST LEVEL SHORTAGE |
| | | .1... | | MCTSQA2 | SQA SECOND LEVEL SHORTAGE |
| | | ..1. | | MCTAVQ1 | AVQ BELOW LIMIT |
| | | ...1 1111 | | MCTSF05 | RESERVED |
| 169 | (A9) | BITSTRING | 1 | MCTOFLGS | FLAGS MODIFIED UNDER SRM LOCK |
| | | 1... | | MCTASM1 | ASM FIRST LEVEL SHORTAGE |
| | | .1... | | MCTASM2 | ASM SECOND LEVEL SHORTAGE |
| | | ..1. | | MCTUICXF | SRB SCHED FOR UIC UPDT |
| | | ...1 | | MCTAMS2 | ASM SECOND LEVEL MESSAGE |
| | | 1... | | MCTSMS1 | SQA FIRST LEVEL MESSAGE |
| | |1.. | | MCTSMS2 | SQA SECOND LEVEL MESSAGE |
| | |1.. | | MCTFX1 | FIX PG 1ST LEVEL MSG |
| | |1 | | MCTFX2 | FIX PG 2ND LEVEL MSG |
| 170 | (AA) | BITSTRING | 1 | MCTOFLG1 | MORE FLAGS - SRM LOCK |
| | | 11.. | | * | |
| | | ..1. | | MCTUICCA | SRB SCHED-COMMON UIC |
| | | ...1 | | MCTSQA2 | SQA EXPANDED MSG |
| | | 1... | | MCTFXMPL | REDUCE MPL TO RELIEVE SHORTAGE |
| | |1.. | | * | |
| | |1.. | | MCTLGAVQ | LOGICAL AVQLOW LEVEL 1 |
| | |1 | | MCTSCBT | STOLE CMN BELOW THRES |
| 171 | (AB) | BITSTRING | 1 | MCTCFLGS | FLAGS TURNED ON UNDER SALLOC LOCK & OFF UNDER SRM LOCK |
| | | 1... | | MCTSHORT | A shortage exists |
| | | .1... | | MCTRLSHT | All of real pageable storage shortage. |
| | | ..1. | | MCTB16SH | Below the line pageable storage shortage. |
| | | ...1 | | MCTDRSHT | All of real and DREF pageable storage shortage |
| | | 1... | | MCTPVTI | PVT FIELDS INITIALIZED |
| | |1.. | | MCTERCFB | EXTENDED STORAGE RECONFIGURATION HAS BEGUN |
| | |1.. | | MCTERCFE | EXTENDED STORAGE RECONFIGURATION HAS ENDED |
| | |1 | | MCTB2GSH | Between 16M and 2G pageable storage shortage @64BITSRM |
| 172 | (AC) | ADDRESS | 4 | MCCMS103 | SQA EXPANDED MSG ADDR |

Comment

TIME INTERVAL VALUES FOR PR1 INVOCATION

End of Comment

| | | | | | |
|-----|------|----------|---|----------|--|
| 176 | (B0) | UNSIGNED | 4 | MCVTMINQ | TIME PR1 LAST RAN IN QUEUE |
| 180 | (B4) | SIGNED | 2 | MCCFXUIC | FIXED FRAME SHORTAGE UIC THRESHOLD |
| 182 | (B6) | SIGNED | 2 | MCVCHUIC | HIGHEST UIC FOR CURRENTLY ALLOCATED COMMON AREA FRAMES |
| 184 | (B8) | SIGNED | 2 | MCVPVTRI | HIGHEST UIC - PVT AREA |
| 186 | (BA) | SIGNED | 2 | MCVHUICE | UIC of oldest frame in expanded |
| 188 | (BC) | SIGNED | 2 | MCCLSWUP | TSO LOGICAL SWAP WORKING SET ADJUSTMENT FACTOR |

MCT Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|---|
| Dec | Hex | | | | |
| 190 | (BE) | SIGNED | 2 | MCVDFPGC | DEFERRED PAGE REQ CT |
| 192 | (C0) | SIGNED | 4 | MCVOLDEO | Value of RCEAECOK, with amount by which RCEAECOK has been raised for swap-in subtracted out. Maintained in RM2 so that dynamic adjustment for expanded storage thresholds can be performed correctly. |
| 196 | (C4) | SIGNED | 2 | MCCNCLIM | UIC LIMIT FOR NON-SWAPPABLES AND COMMON BEFORE ADJUSTING UPDATE INTERVAL |
| 198 | (C6) | SIGNED | 2 | MCCNCDEL | DELTA IN NON-SWAPPABLES AND COMMON UICS FOR INCREASING UPDATE INTERVAL |
| 200 | (C8) | SIGNED | 2 | MCCNCMAX | MAXIMUM INTERVAL BETWEEN UPDATES FOR NON-SWAPPABLES AND COMMON |
| 202 | (CA) | SIGNED | 2 | MCCSWLIM | UIC LIMIT FOR SWAPPABLES BEFORE ADJUSTING UPDATE INTERVAL |
| 204 | (CC) | SIGNED | 2 | MCCSWDEL | DELTA IN SWAPPABLES UICS FOR INCREASING UPDATE INTERVAL |
| 206 | (CE) | SIGNED | 2 | MCCSWMAX | MAXIMUM INTERVAL BETWEEN UPDATES FOR SWAPPABLES |
| 208 | (D0) | SIGNED | 4 | MCVSMXCT | SWAPPABLE MAXIMUM COUNT |
| 212 | (D4) | SIGNED | 4 | MCVINC | PR1 INTERVAL COUNT FOR SWAPPABLES |
| 216 | (D8) | SIGNED | 4 | MCVCURCT | PR1 INTERVAL COUNT FOR COMMON AND NON-SWAPPABLES |
| 220 | (DC) | SIGNED | 4 | MCVMAXCT | NON-SWAPPABLES AND COMMON MAXIMUM COUNT |
| 224 | (E0) | SIGNED | 2 | MCCSIWDL | % OF WORKING SET SIZE TWSS IS TO BE LOWERED BY |
| 226 | (E2) | SIGNED | 2 | MCCSIWDI | % OF WORKING SET SIZE TWSS IS TO BE INCREASED BY |
| 228 | (E4) | SIGNED | 4 | MCCSIETH | EXEC TIME THRESHOLD FOR PAGING RATE CALCULATE |
| 232 | (E8) | SIGNED | 4 | MCVMIGB | BASE MIGRATION COUNT |
| 236 | (EC) | SIGNED | 4 | MCCR19 | |
| 240 | (F0) | SIGNED | 4 | MCCR20 | |
| 244 | (F4) | ADDRESS | 4 | MCCASCB | ASCB PTR FOR PR5 TO UPDATE OUXBFMCT |
| 248 | (F8) | ADDRESS | 4 | MCCMS104 | SQA NO LONGER EXPANDED MESSAGE ADDRESS |

Comment

THE FOLLOWING TWO FIELDS ARE USED TO INITIALIZE THE RCE THRESHOLDS THAT CONTROL PAGE REPLACEMENT. THEY ARE ALSO USED TO CONTROL SWAP IN FAIL PROCESSING

End of Comment

| | | | | | |
|-----|-------|----------|---|----------|-------------------------------------|
| 252 | (FC) | UNSIGNED | 4 | MCCAVQTH | AVAIL FRAME LOW THRESHOLD |
| 252 | (FC) | SIGNED | 2 | MCCAFCLO | AVAIL FRAME QUEUE LOW THRESHOLD |
| 254 | (FE) | SIGNED | 2 | MCCAFCOK | AVAIL FRAME QUEUE OK THRESHOLD |
| 256 | (100) | SIGNED | 4 | MCCUICTH | MIN TIME BEFORE UIC UPDATING |
| 260 | (104) | SIGNED | 4 | MCCFXTM1 | FIXED FRAME SHORTAGE TIME THRESHOLD |
| 264 | (108) | SIGNED | 4 | MCCFXTM2 | FIXED FRAME SHORTAGE TIME THRESHOLD |
| 268 | (10C) | SIGNED | 4 | MCVCSACV | PREV GDACSACV VALUE |
| 272 | (110) | SIGNED | 2 | MCCDEFFX | DEFER FIX THRESHOLD |

Comment

EXTENDED REAL CONSTANTS

End of Comment

| | | | | | |
|-----|-------|--------|---|----------|--|
| 274 | (112) | SIGNED | 2 | MCCFXTPR | % All of real storage threshold Note: In ESAME mode, it is also used as % Between 16M and 2G lines storage threshold @64BITSRM |
| 276 | (114) | SIGNED | 2 | MCCFXEPR | % Below 16M line storage threshold |
| 278 | (116) | SIGNED | 2 | MCCR21 | |
| 280 | (118) | SIGNED | 2 | MCCMEDUP | MEDIAN FIXED FRAME COUNT ADJUSTMENT UP |
| 282 | (11A) | SIGNED | 2 | MCCMEDDN | MEDIAN FIXED FRAME COUNT ADJUSTMENT DOWN |
| 284 | (11C) | SIGNED | 2 | MCCSPINT | TIME FOR DISABLED SPIN |
| 286 | (11E) | SIGNED | 2 | MCCFFCMP | FIXED FRAME COUNT MULTIPLIER FOR AVQ4 PROCESSING |
| 288 | (120) | SIGNED | 4 | MCCMAXFX | All of real shortage threshold count |
| 292 | (124) | SIGNED | 4 | MCCRELCR | All of real critical shortage threshold count |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|----------------------------|-------|------------|-----|------------|---|
| Dec | Hex | | | | |
| 296 | (128) | SIGNED | 4 | MCCB16CR | Below the line critical shortage threshold count |
| 300 | (12C) | SIGNED | 4 | MCCRELOK | All of real OK threshold |
| 304 | (130) | SIGNED | 4 | MCCB16OK | Below the line OK threshold |
| Comment | | | | | |
| EXTENDED REAL VARIABLES | | | | | |
| End of Comment | | | | | |
| 308 | (134) | SIGNED | 4 | MCVSBFXC | FIX CNT ACCUMULATOR |
| 312 | (138) | SIGNED | 2 | MCVSBFXA | AVE FIX % BELOW 16MEG |
| 314 | (13A) | SIGNED | 2 | MCVSBLTF | LONG TERM FIX % |
| 316 | (13C) | SIGNED | 2 | MCVMEDFC | MEDIAN FIX FRAME COUNT - READY USERS |
| 318 | (13E) | SIGNED | 2 | MCVASMCT | Samples taken for verification of ASM counts in RM1 |
| 320 | (140) | SIGNED | 4 | MCVCAPWS | CAP WORKAREA - WORKING SET SIZE ACCUMULATOR |
| 324 | (144) | SIGNED | 2 | MCCMS6L | MS6 INTERVAL LOWER LIMIT |
| 326 | (146) | SIGNED | 2 | MCVSWUPD | SWAP COUNTER UPDATE CTR |
| 328 | (148) | SIGNED | 4 | MCVOLDEL | Value of RCEAECLO, with amount by which RCEAECLO has been raised for swap-in subtracted out. Maintained in RM2 so that dynamic adjustment for expanded storage thresholds can be performed correctly. |
| Comment | | | | | |
| EXTENDED STORAGE VARIABLES | | | | | |
| End of Comment | | | | | |
| 332 | (14C) | SIGNED | 4 | MCVMGAGE | EXTENDED STORE MIGRATION AGE |
| 336 | (150) | SIGNED | 4 | MCVPR9TG | PR9 TARGET FOR TRIM AND BUILDING SECONDARY WORKING SETS |
| 340 | (154) | ADDRESS | 4 | MCVPR5OU | OUCBPTR FOR PR5 WHEN REAL THRESHOLDS RAISED |
| 344 | (158) | UNSIGNED | 4 | MCVMGTME | WAITING-FOR-MIGRATOR TIME STAMP |
| 348 | (15C) | UNSIGNED | 4 | MCVWRAPS | SAVED VALUE OF RCEWRAPS |
| 352 | (160) | SIGNED | 4 | MCVMGCNT | SRM MIGRATE TIME COUNTER |
| 356 | (164) | SIGNED | 4 | MCVSECWS | NUMBER OF SECONDARY WORKING SET PAGES FOR WHICH SWAP-INS HAVE BEEN STARTED |
| 360 | (168) | SIGNED | 4 | MCVFRSWO | AVAIL FRAMES SCHEDULED FOR SWPAOUT TO AUX |
| 364 | (16C) | SIGNED | 4 | MCVSWPES | AVAIL EFRAMES SCHEDULED FOR SWAPOUT TO EXTENDED |
| 368 | (170) | SIGNED | 4 | MCVDEFSE | DEFER SWAP TO EXT IF AVAIL FRAME COUNT EXCEEDS THIS VALUE |
| 372 | (174) | SIGNED | 4 | MCCDEFAM | MULTIPLIER OF AFCOK THRESHOLD TO DETERMINE TARGET NUMBER OF FRAMES TO KEEP AVAILABLE |
| 376 | (178) | SIGNED | 4 | MCCMGTEX | MIGRATOR TIME EXCEEDED THRESHOLD |
| 380 | (17C) | SIGNED | 4 | MCCSWPET | EFRAMES RESERVED FOR PAGEOUTS BY SWAPS |
| 384 | (180) | SIGNED | 2 | MCCETGHT | EXTENDED STORE LOW THRESHOLD MULTIPLIER TO DETERMINE IF EXTENDED STORE IS TIGHT |
| 386 | (182) | SIGNED | 2 | MCCAECLO | AVAIL EXTENDED FRAME QUEUE LOW THRESHOLD |
| 388 | (184) | SIGNED | 2 | MCCAECOK | AVAIL EXTENDED FRAME QUEUE OK THRESHOLD |
| 390 | (186) | SIGNED | 2 | MCCSBMP | SWAP TO EXTENDED WORKING SET ADJUSTMENT |
| 392 | (188) | SIGNED | 2 | MCCPPSBF | PAGABLE PAGE/SEGMENT BUFF |
| 394 | (18A) | UNSIGNED | 1 | MCCMINTR | MINIMUM AMOUNT OF FRAMES TO TRY FOR PER TRIM ATTEMPT |
| 395 | (18B) | UNSIGNED | 1 | MCCSIGTR | MIN AMOUNT OF FRAMES AN A.S. CAN HOLD AND BE SIGNIFICANT ENOUGH TO ATTEMPT A TRIM |
| 396 | (18C) | SIGNED | 2 | MCCSWUPT | SWAP CTR UPDATE THRESHOLD |
| 398 | (18E) | UNSIGNED | 1 | MCVHICT | Count of length of high increase interval (for fixed below 16 meg pages) in IRARMM2 |
| 399 | (18F) | UNSIGNED | 1 | MCCFSIDI | % OF WORKING SET SIZE TWSS IS INCREASED FOR FWA USERS |
| 400 | (190) | UNSIGNED | 1 | MCCES0LO | LOW THRESHOLD FOR % OF TIME RUNNING OUT OF EXTENDED |
| 401 | (191) | UNSIGNED | 1 | MCCES0HI | HIGH THRESHOLD FOR % OF TIME RUNNING OUT OF EXTENDED |

MCT Map

| Offsets | | | | | |
|---------|-------|------------|-----|------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 402 | (192) | SIGNED | 2 | MCVES0CT | MCTEST00 SAMPLE COUNTER |
| 404 | (194) | SIGNED | 2 | MCVESSCT | EXTENDED STORE THRESHOLDS SAMPLE COUNTER |
| 406 | (196) | SIGNED | 2 | MCCESSTH | EXTENDED STORE THRESHOLDS SAMPLE THRESHOLD |
| 408 | (198) | SIGNED | 4 | MCVAECMN | MINIMUM RCEAEC SAMPLED |
| 412 | (19C) | BITSTRING | 1 | MCTEFLGS | EXTENDED STORE BITS |
| | | 1... | | MCTMIGCN | MIGCNSTR SYSEVENT ISSUED |
| | | .1.. | | MCTOVRMX | AT LEAST ONE STOR ISOL ADDR SP OVER MAX WSS EXISTS |
| | | ...1. | | MCTOVRSI | OVERRIDE STOR ISOL IN MIGRATION |
| | | ...1 | | MCTESNA | EXTENDED STORE NOT AVAILABLE |
| | | 1... | | MCTEST00 | THE AMOUNT OF AVAILABLE EXTENDED STORAGE WENT TO 0 |
| | |1.. | | MCTERCFP | EXTENDED STORE RECONFIGURATION IN PROGRESS |
| | |1.. | | MCTEUICS | PR1 HAS BEEN SCHEDULED TO BUILD THE EXPANDED UIC BUCKETS |
| | |1 | | MCTMIGTU | MIGCNSTR tried to unprotect storage but the migrator still could not meet its goal |
| 413 | (19D) | BITSTRING | 1 | MCTEFLG1 | FLAGS MODIFIED UNDER SRM LOCK |
| | | 1... | | MCTAFCST | Reserved |
| | | .1.. | | MCTFSTOV | FORCE STEAL OVERRIDE |
| | | ...1. | | MCTPEND | REQSWAP or TRANSWAP pending or fixed storage shortage |
| | | ...1 1111 | | MCTRV42D | RESERVED |
| 414 | (19E) | SIGNED | 2 | MCCMXRIS | Maximum amount by which real storage thresholds should be raised on behalf of the DREF pages of an address space that is being considered for swap-in. |
| 416 | (1A0) | ADDRESS | 4 | MCCMS700 | VECTOR WAIT MESSAGE ADDR |
| 420 | (1A4) | SIGNED | 4 | MCVEXPDL | The amount of increase to the Expanded Storage available frame queue thresholds due to the AVAILPUP SYSEVENT |
| 424 | (1A8) | SIGNED | 4 | MCVRELDL | The amount of increase to the Real Storage available frame queue thresholds due to the AVAILPUP SYSEVENT |
| 428 | (1AC) | SIGNED | 4 | MCVMSGPT | Pointer to message stack |
| 432 | (1B0) | SIGNED | 4 | MCVDOMQP | Pointer to the DOM queue |
| 436 | (1B4) | SIGNED | 4 | MCCUICMX | UIC value to determine if stealing should be attempted instead of trimming |
| 440 | (1B8) | SIGNED | 4 | MCVFPT | Fixed and DREF shortage threshold count |
| 444 | (1BC) | SIGNED | 4 | MCCDRFCR | Fixed and DREF critical shortage threshold count |
| 448 | (1C0) | SIGNED | 4 | MCCDRFOK | Fixed and DREF OK threshold |
| 452 | (1C4) | SIGNED | 4 | MCVTWSS | TARGET WSS FOR COMMON |
| 456 | (1C8) | SIGNED | 4 | MCVSIWL | CMN LOW WSS SPECIFICATION |
| 460 | (1CC) | SIGNED | 4 | MCVSIWH | CMN HI WSS SPECIFICATION |
| 464 | (1D0) | SIGNED | 4 | MCVFMCT | CMN EFFECTIVE FRAME COUNT |
| 468 | (1D4) | SIGNED | 4 | MCCR23 | |
| 472 | (1D8) | ADDRESS | 4 | MCCMS204 | Aux shortage user message address |
| 476 | (1DC) | SIGNED | 4 | MCCMAXSW | Target maximum number of frames to be swapped for an address space |
| 480 | (1E0) | SIGNED | 4 | MCVAVQLT | TIME (RRPATOD) OF LAST LEVEL 1 AVQLOW SYSEVENT |
| 484 | (1E4) | SIGNED | 4 | MCCTOSEC | TWO SECOND VALUE TO FORCE STEAL OVERRIDE |
| 488 | (1E8) | SIGNED | 2 | MCCSTGT | STGTEST TIME INTERVAL (1 SEC) |
| 490 | (1EA) | SIGNED | 2 | MCCFXBCO | CUT-OFF AMOUNT OF FIXED BELOW FRAMES WHICH ARE STEALABLE |
| 492 | (1EC) | SIGNED | 4 | MCVBYTCT | PREVIOUS BYTE COUNT OF RESERVE STORAGE |
| 496 | (1F0) | SIGNED | 4 | MCVBLKCT | PREVIOUS BLOCK COUNT OF RESERVE STORAGE |
| 500 | (1F4) | ADDRESS | 4 | MCVSWPAS | Address of user picked for MS2 in QSCECMP |
| 504 | (1F8) | SIGNED | 4 | MCVOLDCL | The "base" low central storage threshold component |
| 508 | (1FC) | SIGNED | 4 | MCVOLDCO | The "base" OK central storage threshold component |
| 512 | (200) | SIGNED | 4 | MCVPTLMT | Processor threshold raising limit |
| 516 | (204) | SIGNED | 4 | MCVLSD | Number of logical swap discretionary frames in the system |
| 520 | (208) | UNSIGNED | 4 | MCVMINDF | This is the minimum error between ASM system pageouts in progress received count and ASM pageouts in progress completed count |
| 524 | (20C) | SIGNED | 4 | MCVPGINS | Page-in rate count used for calculating the system paging rate |
| 528 | (210) | SIGNED | 4 | MCVAVAIL | The number of Central and Expanded available frames for input to IRARMTSI |
| 532 | (214) | SIGNED | 4 | MCVUIC1 | total number of UIC bucket 1 frames in the system |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|------------|---|
| Dec | Hex | | | | |
| 536 | (218) | SIGNED | 4 | MCVUIC2 | total number of UIC bucket 2 frames in the system |
| 540 | (21C) | SIGNED | 4 | MCVUIC3 | total number of UIC bucket 3 frames in the system |
| 544 | (220) | SIGNED | 4 | MCVUIC4 | total number of UIC bucket 4 frames in the system |
| 548 | (224) | SIGNED | 4 | MCVUIC1S | total number of UIC bucket 1 frames in the system adjusted by storage isolation |
| 552 | (228) | SIGNED | 4 | MCVUIC2S | total number of UIC bucket 2 frames in the system adjusted by storage isolation |
| 556 | (22C) | SIGNED | 4 | MCVUIC3S | total number of UIC bucket 3 frames in the system adjusted by storage isolation |
| 560 | (230) | SIGNED | 4 | MCVUIC4S | total number of UIC bucket 4 frames in the system adjusted by storage isolation |
| 564 | (234) | SIGNED | 4 | MCVUIC1C | number of UIC bucket 1 frames in the common area adjusted by storage isolation |
| 568 | (238) | SIGNED | 4 | MCVUIC2C | number of UIC bucket 2 frames in the common area adjusted by storage isolation |
| 572 | (23C) | SIGNED | 4 | MCVUIC3C | number of UIC bucket 3 frames in the common area adjusted by storage isolation |
| 576 | (240) | SIGNED | 4 | MCVUIC4C | number of UIC bucket 4 frames in the common area adjusted by storage isolation |
| 580 | (244) | SIGNED | 2 | MCVMFXA | Average percentage of total frames fixed below on the previous invocation of IRARMRM2 |
| 582 | (246) | SIGNED | 2 | MCCCBBT | Central/Fixed Below 16 meg Balance Threshold |
| 584 | (248) | SIGNED | 4 | MCVEUIC1 | expanded storage uic bucket 1 |
| 588 | (24C) | SIGNED | 4 | MCVEUIC2 | expanded storage uic bucket 2 |
| 592 | (250) | SIGNED | 4 | MCVEUIC3 | expanded storage uic bucket 3 |
| 596 | (254) | SIGNED | 4 | MCVEUIC4 | expanded storage uic bucket 4 |
| 600 | (258) | SIGNED | 4 | MCVEXWSD | Count of discretionary expanded storage frames |
| 604 | (25C) | SIGNED | 4 | MCVEUICC | Count of invocations of pr1 used to determine when to build expanded uic buckets |
| 608 | (260) | SIGNED | 4 | MCVMXEUC | Number of pr1 invocation before expanded uic buckets are built |
| 612 | (264) | UNSIGNED | 4 | MCVCMPIB | Base value for common pages paged in from aux (base for RCECOMPI) |
| 616 | (268) | UNSIGNED | 2 | MCVCUBD1 | UIC bucket delimiter calculated at the last SET OPT/during NIP for central storage UIC buckets. In SRM mode the value is used for RCEFRV1. |
| 618 | (26A) | UNSIGNED | 2 | MCVCUBD2 | UIC bucket delimiter calculated at the last SET OPT/during NIP. for central storage UIC buckets. In SRM mode the value is used for RCEFRV2. |
| 620 | (26C) | UNSIGNED | 2 | MCVCUBD3 | UIC bucket delimiter calculated at the last SET OPT/during NIP. for central storage UIC buckets. In SRM mode the value is used for RCEFRV3. |
| 622 | (26E) | SIGNED | 2 | MCVCS0CT | Number of times available frame queue went to 0 |
| 624 | (270) | SIGNED | 2 | MCVCSSCT | Central storage threshold sample counter |
| 626 | (272) | SIGNED | 2 | MCVSHUIC | High UIC value for shared frames |
| 628 | (274) | SIGNED | 4 | MCVAFCMN | MINIMUM RCEAFC SAMPLED |
| 632 | (278) | SIGNED | 4 | MCVSTWSS | Protective processor storage target for shared area |
| 636 | (27C) | SIGNED | 4 | MCVSAUXB | Base for RceSgAux, count of shared area aux slots |
| 640 | (280) | SIGNED | 4 | MCVSUIC1 | Shared area central UIC bucket 1 |
| 644 | (284) | SIGNED | 4 | MCVSUIC2 | Shared area central UIC bucket 2 |
| 648 | (288) | SIGNED | 4 | MCVSUIC3 | Shared area central UIC bucket 3 |
| 652 | (28C) | SIGNED | 4 | MCVSUIC4 | Shared area central UIC bucket 4 |
| 656 | (290) | SIGNED | 4 | MCVSEUC1 | Shared area expanded UIC bucket 1 |
| 660 | (294) | SIGNED | 4 | MCVSEUC2 | Shared area expanded UIC bucket 2 |
| 664 | (298) | SIGNED | 4 | MCVSEUC3 | Shared area expanded UIC bucket 3 |
| 668 | (29C) | SIGNED | 4 | MCVSEUC4 | Shared area expanded UIC bucket 4 |
| 672 | (2A0) | SIGNED | 4 | MCVSGAUX | Shared pages on aux count, base for aux shortage processing |
| 676 | (2A4) | UNSIGNED | 4 | MCVSAUXT | Time of last ASM invocation that calculated shared frame usage |

Comment

ESAME EXTENSIONS @64BITSRM

End of Comment

MCT Cross Reference

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|------------|--|
| Dec | Hex | | | | |
| 680 | (2A8) | SIGNED | 2 | MCCUICUP | Interval (in seconds) at which UIC update processing is taking place. In ESA mode the value will be 1, in ESAME mode the value is 10. Note that in ESAME mode not necessarily all address space UICs are updated in one run. SRM may release the SRM lock inbetween and continue UIC update processing later @64BITSRM |
| 682 | (2AA) | SIGNED | 2 | MCCCONBT | UIC value, below which frames maybe stolen from CASTOUT(NO) hiperspaces (ESAME mode only) @64BITSRM |
| 684 | (2AC) | SIGNED | 4 | MCCEMDIT | Maximum disabled time for STEAL and UIC Update processing before opening an enabled window in ESAME mode (srm_time units: 01x=1.024 milliseconds). The value is set in IEAVNP10 dependant on the mode, but the value will be used in ESAME mode only @64BITSRM |
| 688 | (2B0) | SIGNED | 4 | MCCMAXBT | Between 16M and 2G pageable storage shortage threshold count (ESAME mode only) @64BITSRM |
| 692 | (2B4) | SIGNED | 4 | MCCB2GCR | Between 16M and 2G pageable storage critical shortage threshold count (ESAME mode only) @64BITSRM |
| 696 | (2B8) | SIGNED | 4 | MCCB2GOK | Between 16M and 2G pageable storage OK threshold count (ESAME mode only) @64BITSRM |
| 700 | (2BC) | SIGNED | 2 | MCCQDRSV | Percentage of quad frame groups to be kept free. SRM invokes RSM quad frame steal processing if less than 5% (MCCQDRSV) of the number of allocated quad frame groups is available. (ESAME mode only) @64BITSRM |
| 702 | (2BE) | SIGNED | 2 | MCCR02 | reserved @64BITSRM |
| 704 | (2C0) | UNSIGNED | 4 | MCCR01 (2) | reserved @64BITSRM |
| 712 | (2C8) | CHARACTER | 0 | MCTEND | END OF MCT End of this block |

MCT Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|------------|------------|-----------|----------|------------|-----------|
| MCCAECLO | 182 | | MCCFSIDI | 18F | |
| MCCAECOK | 184 | | MCCFXBCO | 1EA | |
| MCCAFCLCLO | FC | | MCCFXBPR | 58 | |
| MCCAFCCOK | FE | | MCCFXEPR | 114 | |
| MCCAMSGT | 96 | | MCCFXTM1 | 104 | |
| MCCAPCPT | 46 | | MCCFXTM2 | 108 | |
| MCCASCB | F4 | | MCCFXTPR | 112 | |
| MCCASMT1 | 68 | | MCCFXUIC | B4 | |
| MCCASMT2 | 6A | | MCCHSTLC | 3C | |
| MCCASPCT | 6E | | MCCICSPL | 4C | |
| MCCAVQTH | FC | | MCCLIPT | 6D | |
| MCCB16CR | 128 | | MCCLSWUP | BC | |
| MCCB16OK | 130 | | MCCMAXBT | 2B0 | |
| MCCB2GCR | 2B4 | | MCCMAXFX | 120 | |
| MCCB2GOK | 2B8 | | MCCMAXSW | 1DC | |
| MCCCBBT | 246 | | MCCMEDDN | 11A | |
| MCCCONBT | 2AA | | MCCMEDUP | 118 | |
| MCCDEFAM | 174 | | MCCMGTEX | 178 | |
| MCCDEFFX | 110 | | MCCMINTR | 18A | |
| MCCDFREC | 42 | | MCCMS100 | 4 | |
| MCCDFRPC | 40 | | MCCMS101 | 8 | |
| MCCDRFCR | 1BC | | MCCMS102 | C | |
| MCCDRFOK | 1C0 | | MCCMS103 | AC | |
| MCCDUMP | 48 | | MCCMS104 | F8 | |
| MCCEMDIT | 2AC | | MCCMS200 | 10 | |
| MCCEND | 6C | | MCCMS201 | 14 | |
| MCCESBMP | 186 | | MCCMS202 | 18 | |
| MCCESSTH | 196 | | MCCMS203 | 1C | |
| MCCES0HI | 191 | | MCCMS204 | 1D8 | |
| MCCES0LO | 190 | | MCCMS400 | 20 | |
| MCCETGHT | 180 | | MCCMS401 | 24 | |
| MCCE39PL | 50 | | MCCMS402 | 28 | |
| MCCFFCMP | 11E | | MCCMS403 | 2C | |

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------|---------------|--------------|-----------|---------------|--------------|
| MCCMS500 | 30 | | MCTERCFP | 19C | 04 |
| MCCMS501 | 34 | | MCTESNA | 19C | 10 |
| MCCMS6L | 144 | | MCTESTO0 | 19C | 08 |
| MCCMS700 | 1A0 | | MCTEUICS | 19C | 02 |
| MCCMXRIS | 19E | | MCTFSTOV | 19D | 40 |
| MCCNCDEL | C6 | | MCTFXMPL | AA | 08 |
| MCCNCLIM | C4 | | MCTFX1 | A9 | 02 |
| MCCNCMAX | C8 | | MCTFX2 | A9 | 01 |
| MCCOUCBL | 54 | | MCTLGAVQ | AA | 02 |
| MCCPLUS | 38 | | MCTMCT | 0 | |
| MCCPPSBF | 188 | | MCTMIGCN | 19C | 80 |
| MCCQDRSV | 2BC | | MCTMIGTU | 19C | 01 |
| MCCRELCR | 124 | | MCTOFLGS | A9 | |
| MCCRELOK | 12C | | MCTOFLG1 | AA | |
| MCCRQSVL | 4E | | MCTOVRMX | 19C | 40 |
| MCCRSDL | 52 | | MCTOVRSI | 19C | 20 |
| MCCRSPCT | 6F | | MCTPEND | 19D | 20 |
| MCCR01 | 2C0 | | MCTPVTI | AB | 08 |
| MCCR02 | 2BE | | MCTRLSHT | AB | 40 |
| MCCR12 | 94 | | MCTRV42D | 19D | 1F |
| MCCR14 | 9C | | MCTSCBT | AA | 01 |
| MCCR15 | A0 | | MCTSFLGS | A8 | |
| MCCR16 | A4 | | MCTSF05 | A8 | 1F |
| MCCR19 | EC | | MCTSHORT | AB | 80 |
| MCCR20 | F0 | | MCTSMS1 | A9 | 08 |
| MCCR21 | 116 | | MCTSMS2 | A9 | 04 |
| MCCR23 | 1D4 | | MCTSQAE | AA | 10 |
| MCCR5 | 56 | | MCTSQA1 | A8 | 80 |
| MCCR7 | 5C | | MCTSQA2 | A8 | 40 |
| MCCR8 | 60 | | MCTUICCA | AA | 20 |
| MCCR9 | 64 | | MCTUICXF | A9 | 20 |
| MCCSIETH | E4 | | MCVAECMN | 198 | |
| MCCSIGRS | 5A | | MCVAFCMN | 274 | |
| MCCSIGTR | 18B | | MCVAMSGI | 82 | |
| MCCSIPRT | 3E | | MCVASMCT | 13E | |
| MCCSIWDI | E2 | | MCVAVAIL | 210 | |
| MCCSIWDL | E0 | | MCVAVQC | 88 | |
| MCCSPCPT | 44 | | MCVAVQLT | 1E0 | |
| MCCSPINT | 11C | | MCVBLKCT | 1F0 | |
| MCCSTGT | 1E8 | | MCVBYTCT | 1EC | |
| MCCSTLCT | 3A | | MCVCAPWS | 140 | |
| MCCSWDEL | CC | | MCVCHUIC | B6 | |
| MCCSWLIM | CA | | MCVCMPIB | 264 | |
| MCCSWMAX | CE | | MCVCSACV | 10C | |
| MCCSWPET | 17C | | MCVCSSCT | 270 | |
| MCCSWUPT | 18C | | MCVCS0CT | 26E | |
| MCCTOSEC | 1E4 | | MCVCUBD1 | 268 | |
| MCCUICMX | 1B4 | | MCVCUBD2 | 26A | |
| MCCUICTH | 100 | | MCVCUBD3 | 26C | |
| MCCUICUP | 2A8 | | MCVCURCT | D8 | |
| MCT | 0 | | MCVDEFSE | 170 | |
| MCTAFCST | 19D | 80 | MCVDFFPGC | BE | |
| MCTAMS2 | A9 | 10 | MCVDOMQP | 1B0 | |
| MCTASM1 | A9 | 80 | MCVESSCT | 194 | |
| MCTASM2 | A9 | 40 | MCVESWB | 98 | |
| MCTAVQ1 | A8 | 20 | MCVES0CT | 192 | |
| MCTB16SH | AB | 20 | MCVEUICC | 25C | |
| MCTB2GSH | AB | 01 | MCVEUIC1 | 248 | |
| MCTCFLGS | AB | | MCVEUIC2 | 24C | |
| MCTDRSHT | AB | 10 | MCVEUIC3 | 250 | |
| MCTEFLGS | 19C | | MCVEUIC4 | 254 | |
| MCTEFLG1 | 19D | | MCVEXPDL | 1A4 | |
| MCTEND | 2C8 | | MCVEXWSD | 258 | |
| MCTERCFB | AB | 04 | MCVFMCT | 1D0 | |
| MCTERCFE | AB | 02 | MCVFPT | 1B8 | |

MCT Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------|---------------|--------------|----------|---------------|--------------|
| MCVFRCNT | 86 | | MCVUIC1 | 214 | |
| MCVFRSWO | 168 | | MCVUIC1C | 234 | |
| MCVHICT | 18E | | MCVUIC1S | 224 | |
| MCVHUICE | BA | | MCVUIC2 | 218 | |
| MCVINC | D4 | | MCVUIC2C | 238 | |
| MCVLSO | 204 | | MCVUIC2S | 228 | |
| MCVMAXCT | DC | | MCVUIC3 | 21C | |
| MCVMEDFC | 13C | | MCVUIC3C | 23C | |
| MCVMFXA | 244 | | MCVUIC3S | 22C | |
| MCVMGAGE | 14C | | MCVUIC4 | 220 | |
| MCVMGCNT | 160 | | MCVUIC4C | 240 | |
| MCVMGTME | 158 | | MCVUIC4S | 230 | |
| MCVMIGB | E8 | | MCVWRAPS | 15C | |
| MCVMINDF | 208 | | MCVWSMB | 90 | |
| MCVMSGPT | 1AC | | | | |
| MCVMXEUC | 260 | | | | |
| MCVNWSMB | 8C | | | | |
| MCVOLDCL | 1F8 | | | | |
| MCVOLDCO | 1FC | | | | |
| MCVOLDEL | 148 | | | | |
| MCVOLDEO | C0 | | | | |
| MCVPGINS | 20C | | | | |
| MCVPR5OU | 154 | | | | |
| MCVPR9TG | 150 | | | | |
| MCVPTLMT | 200 | | | | |
| MCVPVTRI | B8 | | | | |
| MCVRELDL | 1A8 | | | | |
| MCVSAUXB | 27C | | | | |
| MCVSAUXT | 2A4 | | | | |
| MCVSBFXA | 138 | | | | |
| MCVSBFXC | 134 | | | | |
| MCVSBLTF | 13A | | | | |
| MCVSECWS | 164 | | | | |
| MCVSEUC1 | 290 | | | | |
| MCVSEUC2 | 294 | | | | |
| MCVSEUC3 | 298 | | | | |
| MCVSEUC4 | 29C | | | | |
| MCVSGAUX | 2A0 | | | | |
| MCVSHUIC | 272 | | | | |
| MCVSIBP | 78 | | | | |
| MCVSIBT | 7C | | | | |
| MCVSICM | 6C | 40 | | | |
| MCVSIFLG | 6C | | | | |
| MCVSIPG | 6C | 80 | | | |
| MCVSIPH | 76 | | | | |
| MCVSIPI | 6C | 10 | | | |
| MCVSIPL | 74 | | | | |
| MCVSIPR | 80 | | | | |
| MCVSIR4 | 6C | 0F | | | |
| MCVSIWH | 1CC | | | | |
| MCVSIWL | 1C8 | | | | |
| MCVSIWS | 6C | 20 | | | |
| MCVSMXCT | D0 | | | | |
| MCVSTCRI | 84 | | | | |
| MCVSTGPT | 70 | | | | |
| MCVSTWSS | 278 | | | | |
| MCVSUIC1 | 280 | | | | |
| MCVSUIC2 | 284 | | | | |
| MCVSUIC3 | 288 | | | | |
| MCVSUIC4 | 28C | | | | |
| MCVSWPAS | 1F4 | | | | |
| MCVSWPES | 16C | | | | |
| MCVSWUPD | 146 | | | | |
| MCVTMINQ | B0 | | | | |
| MCVTWSS | 1C4 | | | | |

MDB Programming Interface information

Programming Interface information

MDB

End of Programming Interface information

MDB Heading Information

Common Name: Message Data Block (MDB)
Macro ID: IEAVM105
DSECT Name: MDB, MDBG, MDBSCP, or MDBT
Owning Component: Communications Task (SC1CK)
Eye-Catcher ID: MDB
 Offset: 4
 Length: 4
Storage Attributes: Subpool: N/A
 Key: N/A
 Residency: Message data space for the address space which owns the Extended MCS Console.
Size: 72 bytes
Created by: Various users
Pointed to by: N/A
Serialization: N/A
Function: This is an architected structure consisting of a header and a combination of substructures known as objects (i.e. general, control program and text objects). It is used for message text (WTO/R) and DOMs.

MDB Map

| Offsets | | | | | |
|---------|-----|------------|-----|------------|--------------------------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | MDB | START OF MDB HEADER |
| 0 | (0) | SIGNED | 2 | MDBLEN | MDB length |
| 2 | (2) | CHARACTER | 2 | MDBTYPE | MDB type |
| | |1 | | MDBTYP1 | "X'0001" Type for MDB Type 1 |
| 4 | (4) | CHARACTER | 4 | MDBMID | Acronym 'MDB ' |
| 8 | (8) | BITSTRING | 4 | MDBVER | Revision code |
| | |1 | | MDBVER1 | "X'00000001" Revision code 1 |
| 8 | (8) | X'1' | 0 | MDBVID | "MDBVER1" Current revision code |
| 8 | (8) | X'C' | 0 | MDBHLEN | "*-MDB" Length of MDB Header section |

| Offsets | | | | | |
|---------|------|------------|-----|-------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | MDBG | General Object Section |
| 0 | (0) | SIGNED | 2 | MDBGLEN | General object length |
| 2 | (2) | CHARACTER | 2 | MDBGTYPE | General object type |
| | |1 | | MDBGOBJ | "X'0001" Type for general object |
| 4 | (4) | BITSTRING | 4 | MDBGMID (0) | Message ID |
| 4 | (4) | CHARACTER | 1 | MDBGSYID | System ID |
| 5 | (5) | BITSTRING | 3 | MDBGSEQ | Sequence Number |
| 8 | (8) | CHARACTER | 8 | MDBGTIMH | Time stamp HH.MM.SS format |
| 16 | (10) | CHARACTER | 3 | MDBGTIMT | Time stamp .TH format |
| 19 | (13) | CHARACTER | 1 | MDBGRSV1 | Reserved |
| 20 | (14) | CHARACTER | 7 | MBGDSTP | Date stamp |
| 27 | (1B) | CHARACTER | 1 | MDBGRSV2 | Reserved |
| 28 | (1C) | BITSTRING | 2 | MDBGMFLG | Message flags |
| 28 | (1C) | BITSTRING | 0 | MBGDOM | "X'8000" DOM bit. If this bit is on it indicates that this MDB is for a DOM. The DOM information can be found in the DOM flags in the control program object (MDBDOMFL) |
| 28 | (1C) | BITSTRING | 0 | MDBGALRM | "X'4000" Sound warning alarm (processor controller only) |
| 28 | (1C) | BITSTRING | 0 | MDBGHOLD | "X'2000" Hold bit, Hold message until DOMed or deleted via other external means |

| Offsets | | | | | |
|---------|------|------------|-----|------------|-------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 30 | (1E) | CHARACTER | 2 | MDBGRSV3 | Reserved |
| Comment | | | | | |

The constants for the following fields can be found in section
PRESENTATION ATTRIBUTES EQUATES

| | | | | | |
|----------------|------|-----------|---|--------------|------------------------------------|
| End of Comment | | | | | |
| 32 | (20) | BITSTRING | 4 | MDBGFGPA (0) | Foreground presentation attributes |
| 32 | (20) | BITSTRING | 1 | MDBGFCON | Foreground control field |
| 33 | (21) | BITSTRING | 1 | MDBGFCOL | Foreground color field |
| 34 | (22) | BITSTRING | 1 | MDBGFHIL | Foreground highlighting |
| 35 | (23) | BITSTRING | 1 | MDBGFINT | Foreground intensity |
| 36 | (24) | BITSTRING | 4 | MDBGBGPA (0) | Background presentation attributes |
| 36 | (24) | BITSTRING | 1 | MDBGBCON | Background control field |
| 37 | (25) | BITSTRING | 1 | MDBGBCOL | Background color field |
| 38 | (26) | BITSTRING | 1 | MDBGBHIL | Background highlighting |
| 39 | (27) | BITSTRING | 1 | MDBGBINT | Background intensity |
| 40 | (28) | CHARACTER | 8 | MDBGOSNM | Originating system name |
| 48 | (30) | CHARACTER | 8 | MDBGJBNM | Job name |

| Offsets | | | | | |
|---------|------|------------|-----|-------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | MDBSCP | Control Program Section |
| 0 | (0) | SIGNED | 2 | MDBCLEN | Control program object length |
| 2 | (2) | CHARACTER | 2 | MDBCTYPE | Object type |
| | |1. | | MDBC OBJ | "X'0002" Type for control prog object |
| 4 | (4) | CHARACTER | 16 | MBCPROD (0) | Originating system identifier |
| 4 | (4) | BITSTRING | 4 | MBCVER | MVS CP object version level |
| 8 | (8) | CHARACTER | 4 | MBCPNAM | Control Program name ("MVS") |
| 12 | (C) | CHARACTER | 8 | MBCFMID | FMID of originating system |
| | |1 | | MBCVER1 | "X'00000001" MVS CP object version 1 |
| | |1. | | MBCVER2 | "X'00000002" JBB4422 object version 2 |
| | |11 | | MBCVER3 | "X'00000003" OY65627 object version 3 |
| | |1. | | MBCVER4 | "X'00000004" HBB5510 object version 4 |
| | |1.1 | | MBCVER5 | "X'00000005" HBB5520 object version 5 |
| | | ...1 | | MBCV10 | "X'00000010" Structurally equivalent ot HBB5520 with OW20064 (430) |
| | | ..1. | | MBCV20 | "X'00000020" Structurally equivalent ot HBB5520 with OW20064 (510) |
| | | ..11 | | MBCV30 | "X'00000030" HBB5520 object with OW20064 |
| 12 | (C) | X'30' | 0 | MBCVID | "MBCV30" Current MVS CP object version |
| 12 | (C) | X'E5E240' | 0 | MBCMVS | "C'MVS " Control Program name |
| 20 | (14) | CHARACTER | 16 | MBCERC | Routing codes 1st bit = Route Code 1 2nd bit = Route Code 2 . .. 128th bit = Route Code 128 |
| 36 | (24) | CHARACTER | 2 | MBCDESC (0) | Descriptor codes |
| 36 | (24) | CHARACTER | 1 | MDBDESC1 | Descriptor codes byte 1 |
| | | 1... | | MDBDESCA | "X'80" System failure |
| | | .1.. | | MDBDESCB | "X'40" Immediate action required |
| | | ..1. | | MDBDESCC | "X'20" Eventual action required |
| | | ...1 | | MDBDESCD | "X'10" System status |
| | | 1... | | MDBDESCE | "X'08" Immediate command response |
| | |1. | | MDBDESCF | "X'04" Job status |
| | |1. | | MDBDESCG | "X'02" Application program/processor |
| | |1 | | MDBDESCH | "X'01" Out-of-line |
| 37 | (25) | CHARACTER | 1 | MDBDESC2 | Descriptor codes byte 2 |
| | | 1... | | MDBDESCI | "X'80" Operator's request |
| | | .1.. | | MDBDESCJ | "X'40" Track command response |
| | | ..1. | | MDBDESCK | "X'20" Critical eventual action |
| | | ...1 | | MDBDESCL | "X'10" Important Information |
| | | 1... | | MDBDESCM | "X'08" Previously automated |
| | |1.. | | MDBDESCN | "X'04" Reserved |

MDB Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|--------------|--|
| Dec | Hex | | | | |
| | |1. | | MDBDESCO | "X'02" Reserved |
| | |1 | | MDBDESCP | "X'01" Reserved |
| 38 | (26) | CHARACTER | 2 | MDBCMLVL (0) | Message level |
| 38 | (26) | CHARACTER | 1 | MDBMLVL1 | Message level byte 1 |
| | | 1... | | MDBMLR | "X'80" WTOR |
| | | .1.. | | MDBMLIA | "X'40" Immediate action |
| | | ..1. | | MDBMLCE | "X'20" Critical eventual action |
| | | ...1 | | MDBMLE | "X'10" Eventual action |
| | | 1... | | MDBMLI | "X'08" Informational |
| | |1.. | | MDBMLBC | "X'04" Broadcast |
| | |1. | | MDBMLRSG | "X'02" Reserved |
| | |1 | | MDBMLRSH | "X'01" Reserved |
| 39 | (27) | CHARACTER | 1 | MDBMLVL2 | Message level byte 2 |
| | | 1... | | MDBMLRSI | "X'80" Reserved |
| | | .1.. | | MDBMLRSJ | "X'40" Reserved |
| | | ..1. | | MDBMLRSK | "X'20" Reserved |
| | | ...1 | | MDBMLRSL | "X'10" Reserved |
| | | 1... | | MDBMLRSM | "X'08" Reserved |
| | |1.. | | MDBMLRSN | "X'04" Reserved |
| | |1. | | MDBMLRSO | "X'02" Reserved |
| | |1 | | MDBMLRSP | "X'01" Reserved |
| 40 | (28) | CHARACTER | 2 | MDBCATTR (0) | Message Attribute flags |
| 40 | (28) | CHARACTER | 1 | MDBCATT1 | First byte of attributes |
| | | 1... | | MDBCSUPP | "X'80" Message is suppressed |
| | | .1.. | | MDBCMCSC | "X'40" Message is command response |
| | | ..1. | | MDBCAUTH | "X'20" Message issued by authorized program |
| | | ...1 | | MDBCRETN | "X'10" Message is retained by AMRF |
| | | 1... | | MDBCSPVD | "X'08" WQE Backlog Message |
| | |1.. | | MDBCQONLY | "X'04" Console only |
| 41 | (29) | CHARACTER | 1 | MDBCATT2 | Second byte of attributes |
| 42 | (2A) | SIGNED | 2 | MDBCPRTY | Message priority |
| 44 | (2C) | SIGNED | 2 | MBCRSV5 | Reserved |
| 46 | (2E) | SIGNED | 2 | MBCASID | ASID of issuer |
| 48 | (30) | ADDRESS | 4 | MDBCTCB | Job Step TCB for issuer |
| 52 | (34) | BITSTRING | 4 | MDBCTOKN | Token (for DOM) |
| 56 | (38) | BITSTRING | 1 | MBCSYID | System ID (for DOM) |
| 57 | (39) | BITSTRING | 1 | MDBDOMFL | DOM flags |
| | | 1... | | MDBDMSGI | "X'80" DOM by message id (can be found in MDBGMID) |
| | | .1.. | | MDBDSYSI | "X'40" DOM by system ID |
| | | ..1. | | MDBDASID | "X'20" DOM by ASID |
| | | ...1 | | MDBDJTCB | "X'10" DOM by job step TCB |
| | | 1... | | MDBDTOKN | "X'08" DOM by token |
| 58 | (3A) | BITSTRING | 1 | MDBCmisc | Miscellaneous Routing Info |
| | | 1... | | MDBCUD | "X'80" Display UD messages |
| | | .1.. | | MDBCfUDO | "X'40" Display only UD messages |
| | | ..1. | | MDBCfIDO | "X'20" Queue by ID only |
| | | ...1 | | MDBCAUT | "X'10" Queue by automation |
| | | 1... | | MDBCHC | "X'08" Queue by hardcopy |
| 59 | (3B) | BITSTRING | 1 | MDBCmisc2 | Miscellaneous OPERLOG info |
| | | 1... | | MDBCOCMD | "X'80" Echo operator command |
| | | .1.. | | MDBCICMD | "X'40" Echo internal command |
| | | ..1. | | MDBCWTL | "X'20" Result of WTL macro |
| 60 | (3C) | CHARACTER | 8 | MBCOJID | Originating Job ID |
| 68 | (44) | CHARACTER | 8 | MBCKEY | Retrieval key (Source: WTO) |
| 76 | (4C) | CHARACTER | 8 | MBCAUTO | Automation token |
| 84 | (54) | CHARACTER | 8 | MBCcart | Command and Response Token (Source: WTO) |
| 92 | (5C) | CHARACTER | 4 | MBCCNID | Console ID |
| 96 | (60) | CHARACTER | 2 | MBCMSGT (0) | Message type |
| 96 | (60) | BITSTRING | 1 | MBCMG1 | First byte of message type flags |
| | | 1... | | MDBMSGTA | "X'80" Display jobnames |
| | | .1.. | | MDBMSGTB | "X'40" Display status |
| | | ..1. | | MDBMSGTC | "X'20" Monitor active |
| | | ...1 | | MDBMSGTD | "X'10" Indicates existence of QID field in WPL (AOS/1) |
| | | 1... | | MDBRSV13 | "X'08" Reserved |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|--------------|---|
| Dec | Hex | | | | |
| | |1.. | | MDBMSGTF | "X'04" Monitor SESS |
| | |1.. | | MDBRSV14 | "X'02" Reserved |
| | |1 | | MDBRSV15 | "X'01" Reserved |
| 97 | (61) | BITSTRING | 1 | MDBCMGT2 | Second byte of message type flags |
| 98 | (62) | SIGNED | 2 | MDBCRPYL | Reply ID Length |
| 100 | (64) | CHARACTER | 8 | MDBCRPYI | Reply ID (EBCDIC representation) |
| 108 | (6C) | SIGNED | 2 | MDBCRSV6 | Reserved |
| 110 | (6E) | CHARACTER | 2 | MDBCTOFF | Offset in the message text field of the beginning of the msg |
| 112 | (70) | BITSTRING | 4 | MDBCRPYB | Reply ID (Binary representation) |
| 116 | (74) | CHARACTER | 1 | MDBCAREA | Area ID |
| 117 | (75) | CHARACTER | 1 | MDBCRSV4 | Reserved |
| 118 | (76) | BITSTRING | 4 | MDBCLCNT | Number of lines in message |
| 122 | (7A) | CHARACTER | 8 | MDBCOJBN | Originating job name |
| 130 | (82) | CHARACTER | 8 | MDBCSPLX | Sysplex name |
| 138 | (8A) | CHARACTER | 4 | MDBCXMOD (0) | Copy of request flags (CTXTRFLG) from the WTO user exit interface |
| 138 | (8A) | CHARACTER | 3 | MDBCRFLG (0) | Comm Task user exit requests |
| 138 | (8A) | BITSTRING | 1 | MDBCRFB1 | Request flags byte one |
| | | 1... | | MDBCRCMT | "X'80" Message text was changed |
| | | .1.. | | MDBCRCRC | "X'40" Routing code(s) were changed |
| | | .1.. | | MDBCRCDC | "X'20" Descriptor code(s) were changed |
| | | ...1 | | MDBCRQPC | "X'10" Queued to a particular active console |
| | | 1... | | MDBCRQUN | "X'08" Queued to a particular console unconditionally |
| | |1.. | | MDBCRQRC | "X'04" Queued by routing codes only |
| | |1.. | | MDBCRCCN | "X'02" Console ID was changed |
| | |1 | | MDBCRPML | "X'01" Minor lines were processed |
| 139 | (8B) | BITSTRING | 1 | MDBCRFB2 | Request flags byte two |
| | | 1... | | MDBCRDTM | "X'80" Message was deleted |
| | | .1.. | | MDBCROMS | "X'40" MPF suppression Overrided |
| | | .1.. | | MDBCRFHC | "X'20" Hardcopy forced |
| | | ...1 | | MDBCRNHC | "X'10" No hardcopy forced |
| | | 1... | | MDBCRHCO | "X'08" Only hardcopy forced |
| | |1.. | | MDBCRBCA | "X'04" Broadcasted message to active consoles |
| | |1.. | | MDBCRBCN | "X'02" Did not broadcast message to active consoles |
| | |1 | | MDBCRNRT | "X'01" AMRF did not retain this msg |
| 140 | (8C) | BITSTRING | 1 | MDBCRFB3 | Request flags byte three |
| | | 1... | | MDBCRRET | "X'80" AMRF retained this msg |
| | | .1.. | | MDBCRCKY | "X'40" Changed the retrieval key |
| | | .1.. | | MDBCRFCF | "X'20" Changed the 4-byte console id |
| | | ...1 | | MDBCRCMF | "X'10" Changed the message type flags |
| | | 1... | | MDBCRANO | "X'08" Automation was not required |
| | |1.. | | MDBCRAYS | "X'04" Automation was required and/or automation token updated |
| | |1.. | | MDBCQHCO | "X'02" Message issued hardcopy only |
| | |1 | | MDBCHUD | "X'01" UD to hardcopy flag |
| 141 | (8D) | BITSTRING | 1 | MDBCSUPB | Suppression byte |
| | | 1... | | MDBCSNSV | "X'80" Not serviced by any WTO user exit routine |
| | | .1.. | | MDBCSEER | "X'40" Estae error in ieavx600 |
| | | .1.. | | MDBCSNSI | "X'20" Not serviced because of an incompatible request |
| | | ...1 | | MDBCSAUT | "X'10" Indicate automation specified |
| | | 1... | | MDBCSQED | "X'08" Not queued to any console |
| | |1.. | | MDBCSSSI | "X'04" Suppressed by a subsystem |
| | |1.. | | MDBCSWTO | "X'02" Suppressed by a WTO user exit routine |
| | |1 | | MDBCSMPF | "X'01" Suppressed by MPF |
| 142 | (8E) | CHARACTER | 8 | MDBCCNNM | Console name |
| 150 | (96) | CHARACTER | 2 | MDBCMCSF (0) | MCS flags from WPL |
| 150 | (96) | BITSTRING | 1 | MDBMCSF1 | First byte of MCS flags |
| | | 1... | | MDBMCSA | "X'80" Route/Descriptor code fields present |
| | | .1.. | | MDBMCSB | "X'40" MCSFLAG=REG0 was specified |
| | | .1.. | | MDBMCSC | "X'20" MCSFLAG=RESP was specified |
| | | ...1 | | MDBMCSD | "X'10" Message type field exists |
| | | 1... | | MDBMCSE | "X'08" MCSFLAG=REPLY was specified |
| | |1.. | | MDBMCSF | "X'04" MCSFLAG=BRDCST was specified |
| | |1.. | | MDBMCSG | "X'02" MCSFLAG=HRDCPY was specified |

MDB Map

| Offsets | | | | | |
|---------|------|------------|-----|------------|-------------------------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 151 | (97) |1 | 1 | MDBMCSH | "X'01" MCSFLAG=QREG0 was specified |
| | | BITSTRING | | MDBMCSF2 | Second byte of MCS flags |
| | | 1... | | MDBMCSI | "X'80" MCSFLAG=NOTIME was specified |
| | | .1.. | | MDBMCSJ | "X'40" MLWTO indicator |
| | | ..1. | | MDBMCSK | "X'20" Primary subsystem use |
| | | ...1 | | MDBMCSL | "X'10" Extended WPL used |
| | | 1... | | MDBMCSM | "X'08" MCSFLAG= CMD was specified |
| | |1.. | | MDBMCSN | "X'04" MCSFLAG=NOCPY was specified |
| 152 | (98) |1. | 2 | MDBMCSO | "X'02" WQEBLK used |
| | | CHARACTER | | MDBCRSV1 | Reserved |

| Offsets | | | | | |
|---------|-----|------------|-----|--------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | MDBT | Start of text object |
| 0 | (0) | SIGNED | 2 | MDBTLEN | Text object length |
| 2 | (2) | CHARACTER | 2 | MDBTTYPE | Text object type |
| | |1.. | | MDBTOBJ | "X'0004" Type for message text object |
| 4 | (4) | CHARACTER | 2 | MDBTLNTY (0) | Line type flags - 2 bytes |
| 4 | (4) | CHARACTER | 1 | MDBTLNT1 | Line type flags byte 1 |
| | | 1... | | MDBTCONT | "X'80" Control text |
| | | .1.. | | MDBTLABT | "X'40" Label text |
| | | ..1. | | MDBTDATT | "X'20" Data text |
| | | ...1 | | MDBTENDT | "X'10" End text |
| | | 1... | | MDBTPROT | "X'08" Prompt text |
| | |1.. | | MDBTRSV1 | "X'04" Reserved |
| | |1. | | MDBTRSV2 | "X'02" Reserved |
| 5 | (5) | CHARACTER | 1 | MDBTLNT2 | Line type flags byte 2 |
| | |1 | | MDBTFPAF | "X'01" Text object presentation attribute field overrides general object presentation attribute field |
| 6 | (6) | BITSTRING | 4 | MDBTMTPA (0) | Presentation attribute |
| 6 | (6) | BITSTRING | 1 | MDBTPCON | Presentation control field |
| 7 | (7) | BITSTRING | 1 | MDBTPCOL | Presentation color field |
| 8 | (8) | BITSTRING | 1 | MDBTPHIL | Presentation highlighting |
| 9 | (9) | BITSTRING | 1 | MDBTPINT | Presentation intensity |
| 9 | (9) | X'A' | 0 | MDBTMSGT | *** Message text field |
| 9 | (9) | X'A' | 0 | MDBTMBOB | "MDBTMSGT-MDBT" Length of the message text object minus the text field. This can be used to compute the text field length (i.e.MDBTLEN-MDBTMBOB) |

Comment

Presentation Attributes Equates
CONTROL ATTRIBUTES

End of Comment

1...

MDBSNALM

"X'80" Sound note alarm (presentation device's 'beep' alarm)

Comment

COLOR ATTRIBUTES

End of Comment

1111

MDBBLACK

"X'F0" Presentation background-black on display, white on printer

1111 ...1

MDBBLUE

"X'F1" Color is blue

1111 ..1.

MDBRED

"X'F2" Color is red

1111 ..11

MDBPINK

"X'F3" Color is pink (magenta)

1111 .1..

MDBGREEN

"X'F4" Color is green

1111 .1.1

MDBTURQ

"X'F5" Color is turquoise (cyan)

1111 .11.

MDBYELLOW

"X'F6" Color is yellow

1111 .111

MDBWHITE

"X'F7" Presentation neutral-white on display, black on a printer

| Offsets | | Type/Value | Len | Name (Dim) | Description | | | | |
|-------------------------|-----|------------|------|------------|-------------------------------------|--|--|--|--|
| Dec | Hex | | | | | | | | |
| Comment | | | | | | | | | |
| HIGHLIGHTING ATTRIBUTES | | | | | | | | | |
| End of Comment | | | | | | | | | |
| | | | | MDBHNONE | "X'00" No highlighting is in effect | | | | |
| | | 1111 | ...1 | MDBBLINK | "X'F1" Blinking highlight | | | | |
| | | 1111 | ..1. | MDBRVDO | "X'F2" Reverse video highlight | | | | |
| | | 1111 | .1.. | MDBUNDER | "X'F4" Underscore highlight | | | | |
| Comment | | | | | | | | | |
| INTENSITY ATTRIBUTES | | | | | | | | | |
| End of Comment | | | | | | | | | |
| | | 111. | .1.. | MDBINORM | "X'E4" Normal intensity | | | | |
| | | 111. | 1... | MDBIHIGH | "X'E8" High (bright) intensity | | | | |

MDB Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| MDB | 0 | | MDBCPRTY | 2A | |
| MDBBLACK | 9 | F0 | MDBCQHCO | 8C | 2 |
| MDBBLINK | 9 | F1 | MDBCQNLV | 28 | 4 |
| MDBBLUE | 9 | F1 | MDBCRAO | 8C | 8 |
| MDBCAREA | 74 | | MBCRCAYS | 8C | 4 |
| MBCASID | 2E | | MBCRCBCA | 8B | 4 |
| MBCATTR | 28 | | MBCRCBCN | 8B | 2 |
| MBCATT1 | 28 | | MBCRCN | 8A | 2 |
| MBCATT2 | 29 | | MBCRCDC | 8A | 20 |
| MBCAUT | 3A | 10 | MBCRCFC | 8C | 20 |
| MBCAUTH | 28 | 20 | MBCRCCKY | 8C | 40 |
| MBCAUTO | 4C | | MBCRCMF | 8C | 10 |
| MBCCCART | 54 | | MBCRCMT | 8A | 80 |
| MBCCNID | 5C | | MBCRCRC | 8A | 40 |
| MBCCNM | 8E | | MBCRD | 8B | 80 |
| MBCDESC | 24 | | MBCRET | 28 | 10 |
| MBCERC | 14 | | MBCRFB1 | 8A | |
| MBCFIDO | 3A | 20 | MBCRFB2 | 8B | |
| MBCFMID | C | | MBCRFB3 | 8C | |
| MBCFUDO | 3A | 40 | MBCRFHC | 8B | 20 |
| MBCHC | 3A | 8 | MBCRFLG | 8A | |
| MBCHUD | 8C | 1 | MBCRHCO | 8B | 8 |
| MBCICMD | 3B | 40 | MBCRNHC | 8B | 10 |
| MBCKEY | 44 | | MBCRNRT | 8B | 1 |
| MBCLCNT | 76 | | MBCROMS | 8B | 40 |
| MBCLEN | 0 | | MBCRPML | 8A | 1 |
| MBCMCSC | 28 | 40 | MBCRPYB | 70 | |
| MBCMCSCF | 96 | | MBCRPYI | 64 | |
| MBCMGT1 | 60 | | MBCRPYL | 62 | |
| MBCMGT2 | 61 | | MBCRQPC | 8A | 10 |
| MBCMISC | 3A | | MBCRQRC | 8A | 4 |
| MBCMLVL | 26 | | MBCRQUN | 8A | 8 |
| MBCMSC2 | 3B | | MBCRRET | 8C | 80 |
| MBCMSGT | 60 | | MBCRSV1 | 98 | |
| MBCMVS | C | E5E240 | MBCRSV4 | 75 | |
| MBCOBJ | 2 | 2 | MBCRSV5 | 2C | |
| MBCOCMD | 3B | 80 | MBCRSV6 | 6C | |
| MBCOJBN | 7A | | MBCSAUT | 8D | 10 |
| MBCOJID | 3C | | MBCSEER | 8D | 40 |
| MBCPNAM | 8 | | MBCSMPF | 8D | 1 |
| MBCPROD | 4 | | MBCSNSI | 8D | 20 |

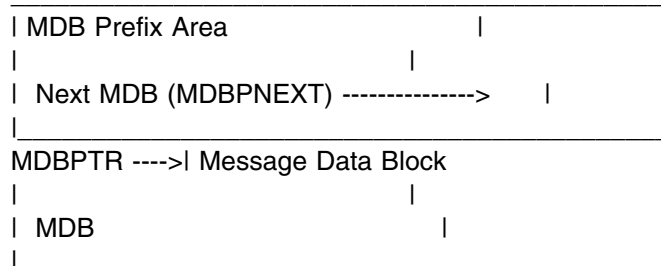
MDB Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| MDBCSNSV | 8D | 80 | MDBGJBNM | 30 | |
| MDBCSPLX | 82 | | MDBGLEN | 0 | |
| MDBCSPVD | 28 | 8 | MDBGMFLG | 1C | |
| MBCSQED | 8D | 8 | MDBGMID | 4 | |
| MBCSSSI | 8D | 4 | MDBGOBJ | 2 | 1 |
| MBCSUPB | 8D | | MDBGOSNM | 28 | |
| MBCSUPP | 28 | 80 | MDBGREEN | 9 | F4 |
| MBCSWTO | 8D | 2 | MDBGRSV1 | 13 | |
| MBCSYID | 38 | | MDBGRSV2 | 1B | |
| MDBCTCB | 30 | | MDBGRSV3 | 1E | |
| MDBCTOFF | 6E | | MDBGSEQ | 5 | |
| MDBCTOKN | 34 | | MDBGSYID | 4 | |
| MDBCTYPE | 2 | | MDBGTIMH | 8 | |
| MBCUD | 3A | 80 | MDBGTIMT | 10 | |
| MBCVER | 4 | | MDBGTYPE | 2 | |
| MBCVER1 | C | 1 | MDBHLEN | 8 | C |
| MBCVER2 | C | 2 | MDBHNONE | 9 | 0 |
| MBCVER3 | C | 3 | MDBIHIGH | 9 | E8 |
| MBCVER4 | C | 4 | MDBINORM | 9 | E4 |
| MBCVER5 | C | 5 | MDBLEN | 0 | |
| MBCVID | C | 30 | MDBMCSA | 96 | 80 |
| MBCV10 | C | 10 | MDBMCSB | 96 | 40 |
| MBCV20 | C | 20 | MDBMCSC | 96 | 20 |
| MBCV30 | C | 30 | MDBMCSD | 96 | 10 |
| MBCWTL | 3B | 20 | MDBMCSE | 96 | 8 |
| MBCXMOD | 8A | | MDBMCSF | 96 | 4 |
| MBDASID | 39 | 20 | MDBMCSF1 | 96 | |
| MBDDESCA | 24 | 80 | MDBMCSF2 | 97 | |
| MBDDESCB | 24 | 40 | MDBMCSG | 96 | 2 |
| MBDDESCC | 24 | 20 | MDBMCSH | 96 | 1 |
| MBDDESCD | 24 | 10 | MDBMCSI | 97 | 80 |
| MBDDESCE | 24 | 8 | MDBMCSJ | 97 | 40 |
| MBDDESCF | 24 | 4 | MDBMCSK | 97 | 20 |
| MBDDESCG | 24 | 2 | MDBMCSL | 97 | 10 |
| MBDDESCH | 24 | 1 | MDBMCSM | 97 | 8 |
| MBDDESCI | 25 | 80 | MDBMCSN | 97 | 4 |
| MBDDESCJ | 25 | 40 | MDBMCSO | 97 | 2 |
| MBDDESCK | 25 | 20 | MDBMID | 4 | |
| MBDDESCL | 25 | 10 | MDBMLBC | 26 | 4 |
| MBDDESCM | 25 | 8 | MDBMLCE | 26 | 20 |
| MBDDESCN | 25 | 4 | MDBMLE | 26 | 10 |
| MBDDESCO | 25 | 2 | MDBMLI | 26 | 8 |
| MBDDESCP | 25 | 1 | MDBMLIA | 26 | 40 |
| MBDDESC1 | 24 | | MDBMLR | 26 | 80 |
| MBDDESC2 | 25 | | MDBMLRSG | 26 | 2 |
| MBDJTCB | 39 | 10 | MDBMLRSH | 26 | 1 |
| MBDMSGI | 39 | 80 | MDBMLRSI | 27 | 80 |
| MBDOMFL | 39 | | MDBMLRSJ | 27 | 40 |
| MBDYSI | 39 | 40 | MDBMLRSK | 27 | 20 |
| MBDTOKN | 39 | 8 | MDBMLRSL | 27 | 10 |
| MDBG | 0 | | MDBMLRSM | 27 | 8 |
| MDBGALRM | 1C | 4000 | MDBMLRSN | 27 | 4 |
| MDBGBCOL | 25 | | MDBMLRSO | 27 | 2 |
| MDBGBCON | 24 | | MDBMLRSP | 27 | 1 |
| MDBGBGPA | 24 | | MDBMLVL1 | 26 | |
| MDBGBHIL | 26 | | MDBMLVL2 | 27 | |
| MDBGBINT | 27 | | MDBMSGTA | 60 | 80 |
| MBGDOM | 1C | 8000 | MDBMSGTB | 60 | 40 |
| MBGDSTP | 14 | | MDBMSGTC | 60 | 20 |
| MBGFCOL | 21 | | MDBMSGTD | 60 | 10 |
| MBGFCON | 20 | | MDBMSGTF | 60 | 4 |
| MBGFGPA | 20 | | MDBPINK | 9 | F3 |
| MBGFHIL | 22 | | MDBRED | 9 | F2 |
| MBGFINT | 23 | | MDBRSV13 | 60 | 8 |
| MBGHOLD | 1C | 2000 | MDBRSV14 | 60 | 2 |

| Name | Hex Offset | Hex Value |
|-----------|---------------|--------------|
| MDBRSV15 | 60 | 1 |
| MDBRVIDO | 9 | F2 |
| MDBSCP | 0 | |
| MDBSNALM | 9 | 80 |
| MDBT | 0 | |
| MDBTCONT | 4 | 80 |
| MDBTDATT | 4 | 20 |
| MDBTENDT | 4 | 10 |
| MDBTFPAF | 5 | 1 |
| MDBTLABT | 4 | 40 |
| MDBTLEN | 0 | |
| MDBTLNTY | 4 | |
| MDBTLNT1 | 4 | |
| MDBTLNT2 | 5 | |
| MDBTMBOB | 9 | A |
| MDBTMSGT | 9 | A |
| MDBTMTPA | 6 | |
| MDBTOBJ | 2 | 4 |
| MDBTPCOL | 7 | |
| MDBTPCON | 6 | |
| MDBTPHIL | 8 | |
| MDBTPINT | 9 | |
| MDBTPROT | 4 | 8 |
| MDBTRSV1 | 4 | 4 |
| MDBTRSV2 | 4 | 2 |
| MDBTTYPE | 2 | |
| MDBTURQ | 9 | F5 |
| MDBTYPE | 2 | |
| MDBTYP1 | 2 | 1 |
| MDBUNDER | 9 | F4 |
| MDBVER | 8 | |
| MDBVER1 | 8 | 1 |
| MDBVID | 8 | 1 |
| MDBWHITE | 9 | F7 |
| MDBYELLOW | 9 | F6 |

MDBP Heading Information

Common Name: Prefix area for Message Data Block
Macro ID: IEAVG132
DSECT Name: MDBPRFX
Owning Component: Communications Task (SC1CK)
Eye-Catcher ID: MDBP
 Offset: 0
 Length: 4
Storage Attributes: Subpool: N/A
 Key: N/A
 Residency: Message data space for the address space which owns the Extended MCS Console.
Size: 28 bytes
Created by: IEAVN617
Pointed to by: MDBPTR-LENGTH(MDBPRFX)
 This mapping will always immediately precede the MDB (IEAVM105)
Serialization: N/A
Function: This prefix area is used to chain all the MDBs for a given message together. All MDBs in the message data space will be prefixed by this control block.



MDBP Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|----------------------------------|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | MDBPRFX | Prefix area for MDB |
| 0 | (0) | SIGNED | 4 | (0) | |
| 0 | (0) | CHARACTER | 4 | MDBPID | Acronym MDBP |
| 4 | (4) | CHARACTER | 1 | MDBPVER | Version level |
| 4 | (4) | X'1' | 0 | MDBPS410 | "1" Version level for SP410 |
| 4 | (4) | X'1' | 0 | MDBPVID | "MDBPS410" Current version level |
| 5 | (5) | CHARACTER | 3 | | Reserved |
| 8 | (8) | ADDRESS | 4 | MDBPNEXT | Pointer to next MDB for this msg |
| 12 | (C) | CHARACTER | 12 | | Reserved |
| 24 | (18) | ADDRESS | 4 | MDBPOEXT | Pointer to reserved extension |
| 24 | (18) | X'1C' | 0 | MDBPLNNO | "*-MDBPRFX" Length of MDBPRFX |

MDBP Cross Reference

MDBP Cross Reference

| Name | Hex Offset | Hex Value |
|----------|---------------|--------------|
| MDBPID | 0 | |
| MDBPLNNO | 18 | 1C |
| MDBPNEXT | 8 | |
| MDBPOEXT | 18 | |
| MDBPRFX | 0 | |
| MDBPS410 | 4 | 1 |
| MDBPVER | 4 | |
| MDBPVID | 4 | 1 |

MGCORE Heading Information

Common Name: MGCORE parameter list
Macro ID: IEZMGCORE
DSECT Name: MGCEPL
Owning Component: MASTER SCHEDULER (SC1B8)
Eye-Catcher ID: MGCORE
 Offset: 4
 Length: 5
Storage Attributes: Subpool: ANY
 Key: ANY
 Residency: ANY
Size: 60 bytes for MGCORE, 128 bytes for MGCETEXT
 plus storage for optional UTOKEN and/or PTOKEN fields
Created by: Issuers of MGCORE macro
Pointed to by: Register 1 (Set up by the MGCORE macro)
Serialization: None
Function: Serves as a parameter list for the MGCORE
 macro for SVC 34 command processing.

MGCORE Map

| Offsets | | | | | |
|--|-----|------------|-----|------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 60 | MGCEPL | MGCORE parameter list |
| 0 | (0) | UNSIGNED | 1 | MGCEFL1 | Flag field '00' |
| 1 | (1) | UNSIGNED | 1 | MGCELGH | Flag byte-Control pgm use only@05C |
| | | 1... | | MGCERTDM | Command is routed by ROUTE *ALL command |
| | | .1.. | | MGCEOCSP | Original console id specified |
| | | ..11 1111 | | * | Reserved |
| Comment | | | | | |
| The MGCEFL1 field must be exactly mapped by the XACMFLGA field in the XSA. | | | | | |
| End of Comment | | | | | |
| 2 | (2) | UNSIGNED | 2 | MGCEFL | Flag field |
| 2 | (2) | UNSIGNED | 1 | MGCEFL1 | First byte of flag field |
| | | 1... | | MGCEEXT | Extended form (MGCORE) parameter list is being used |
| | | .1.. | | MGCESSI | Subsystem issued the command |
| | | ..1. | | MGCECMD | Module IEAVC700 issued the command |
| | | ...1 | | MGCEHPY | Suppress hardcopy |
| | | 1... | | MGCE TOK | TOKEN keyword specified |
| | |1.. | | MGCEIDSP | CONSID keyword specified |
| | |1. | | MGCENMSP | CONSNAME keyword specified |
| | |1 | | MGCEAUSP | Command authority specified |
| 3 | (3) | UNSIGNED | 1 | MGCEFL2 | Second byte of flag field |
| | | 1... | | MGCEFAST | Bypass SSI ,command exits and CMDAUTH |
| | | .1.. | | MGCENPFX | No prefix processing |
| | | ..1. | | MGCECTSP | CART keyword specified |
| | | ...1 | | MGCEPASS | RESERVED FOR SP313 COMPATIBILITY |
| | | 1... | | MGCEUTOK | RESERVED FOR SP313 COMPATIBILITY |
| | |1.. | | MGCERTD | Command was routed |
| | |1. | | MGCEENBY | RESERVED for APAR rework compatibility |
| | |1 | | MGCEDFER | Deferred command execution |
| 4 | (4) | CHARACTER | 5 | MGCEACM | Control block acronym 'MGCORE' |
| 9 | (9) | UNSIGNED | 1 | MGCEVRSN | Version level |
| 10 | (A) | UNSIGNED | 1 | MGCELF3 | Third byte of flags |

MGCRE Map

| Offsets | | | | | |
|---------|------|------------|-----|------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| | | 1... .. | | MGCECOAC | Compressed ACEE is present |
| | | .1.. .. | | MGCENOB | Do not bypass RACROUTE for requeued commands |
| | | ..11 1111 | | * | Reserved |
| 11 | (B) | CHARACTER | 1 | MGCERES1 | Reserved |
| 12 | (C) | ADDRESS | 4 | MGCETXTP | Address of the command text |
| 16 | (10) | UNSIGNED | 4 | MGCETOKN | Token |
| 20 | (14) | CHARACTER | 8 | MGCECNM | Console name |
| 28 | (1C) | UNSIGNED | 4 | MGCECNID | Console id |
| Comment | | | | | |

The MGCEDISP field must be exactly mapped by the XADISP field in the XSA (IEEXSA).

| | | | | | |
|----------------|------|-----------|---|----------|-------------------------------------|
| End of Comment | | | | | |
| 32 | (20) | BITSTRING | 1 | MGCEDISP | Command disposition |
| | | 1... .. | | MGCEDSPA | Command has MASTER authority |
| | | .1.. .. | | MGCEDSPM | Command has PSEUDO MASTER authority |
| | | ..11 .. | | * | Reserved for IBM use |
| | | 1.. | | MGCEDSPE | Command issued by ARM |
| | |111 | | * | Reserved for IBM use |
| Comment | | | | | |

The MGCEAUTH field must be exactly mapped by the XAAUTH field in the XSA (IEEXSA).

| | | | | | |
|----------------|------|-----------|---|-----------|--|
| End of Comment | | | | | |
| 33 | (21) | BITSTRING | 2 | MGCEAUTH | Command authority level |
| 33 | (21) | BITSTRING | 1 | MGCEATHA | Byte one |
| | | 1... .. | | MGCEATH1 | Command has SYS authority |
| | | .1.. .. | | MGCEATH2 | Command has I/O authority |
| | | ..1. | | MGCEATH3 | Command has CONS authority |
| | | ...1 1111 | | * | Reserved |
| 34 | (22) | BITSTRING | 1 | MGCEATHB | Reserved |
| 35 | (23) | BITSTRING | 1 | MGCERES2 | Reserved |
| 36 | (24) | CHARACTER | 8 | MGCERCART | CART |
| 44 | (2C) | CHARACTER | 8 | MGCESYSN | Originating system name |
| 52 | (34) | ADDRESS | 4 | MGCETUP | Utoken address |
| 56 | (38) | SIGNED | 4 | MGCCEOCID | Originating console id (use for authority checking |
| 60 | (3C) | CHARACTER | 0 | MGCESZE1 | Size of the MGCRE plist without the command text |

| Offsets | | | | | |
|---------|------|------------|-----|------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 128 | MGCETEXT | |
| 0 | (0) | SIGNED | 2 | MGCLEN | Command text length |
| 2 | (2) | CHARACTER | 126 | MGCETXT | Command text |
| 128 | (80) | CHARACTER | 0 | MGCESZE2 | Size of command text and length of the command text |

MGCRE Constants

| Len | Type | Value | Name | Description |
|-----|-----------|-------|----------|----------------------------|
| 5 | CHARACTER | MGCRE | MGCENAME | 'MGCRE' acronym |
| 1 | DECIMAL | 1 | MGCESP41 | Version level |
| 1 | DECIMAL | 2 | MGCEROAL | Version level with OW15497 |
| 1 | DECIMAL | 2 | MGCEVRID | Version level |

MGCRE Cross Reference

| Name | Hex Offset | Hex Value |
|----------|------------|-----------|
| MGCEACM | 4 | |
| MGCEATHA | 21 | |
| MGCEATHB | 22 | |
| MGCEATH1 | 21 | 80 |
| MGCEATH2 | 21 | 40 |
| MGCEATH3 | 21 | 20 |
| MGCEAUSP | 2 | 01 |
| MGCEAUTH | 21 | |
| MGCECART | 24 | |
| MGCECMD | 2 | 20 |
| MGCECNID | 1C | |
| MGCECNNM | 14 | |
| MGCECOAC | A | 80 |
| MGCECTSP | 3 | 20 |
| MGCEDFER | 3 | 01 |
| MGCEDISP | 20 | |
| MGCEDSPA | 20 | 80 |
| MGCEDSPE | 20 | 08 |
| MGCEDSPM | 20 | 40 |
| MGCEENBY | 3 | 02 |
| MGCEEXT | 2 | 80 |
| MGCEFAST | 3 | 80 |
| MGCEFL1 | 0 | |
| MGCEHPY | 2 | 10 |
| MGCEIDSP | 2 | 04 |
| MGCELEN | 0 | |
| MGCELFL | 2 | |
| MGCELF1 | 2 | |
| MGCELF2 | 3 | |
| MGCELF3 | A | |
| MGCELGH | 1 | |
| MGCENMSP | 2 | 02 |
| MGCENOB | A | 40 |
| MGCENPFX | 3 | 40 |
| MGCEOCID | 38 | |
| MGCEOCSP | 1 | 40 |
| MGCEPASS | 3 | 10 |
| MGCEPL | 0 | |
| MGCERES1 | B | |
| MGCERES2 | 23 | |
| MGCERTD | 3 | 04 |
| MGCERTDM | 1 | 80 |
| MGCESSE | 2 | 40 |
| MGCESYSN | 2C | |
| MGCESZE1 | 3C | |
| MGCESZE2 | 80 | |
| MGCETEXT | 0 | |
| MGCETOK | 2 | 08 |
| MGCETOKN | 10 | |
| MGCETXT | 2 | |
| MGCETXTP | C | |
| MGCEUTOK | 3 | 08 |
| MGCEUTP | 34 | |
| MGCEVRSN | 9 | |

MGCRPL Programming Interface information

Programming Interface information

MGCRPL

The following fields are **NOT** programming interface information:

- | | | | |
|-------------|------------|------------|------------|
| • MGCRAUSP | • MGCRENBY | • MGCRIDSP | • MGCRPASS |
| • MGCRCMD | • MGCRFAST | • MGCRNMSP | • MGCRRTD |
| • MGCRCCTSP | • MGCRHCPY | • MGCRNPFX | • MGCRSSI |
| • MGCRDFER | | | |

End of Programming Interface information

MGCRPL Heading Information

Common Name: MGCR PARAMETER LIST DEFINITION
Macro ID: IEZMGCR
DSECT Name: MGCRPL MGCRPTOK MGCRSTOK
Owning Component: MASTER SCHEDULER (SC1B8)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: ANY
 Key: ANY
 Residency: ANY
Size: VARIABLE, 5 TO 214 BYTES, DEPENDING ON THE LENGTH OF THE TEXT, PLUS THE PRESENCE OF THE OPTIONAL UTOKEN AND/OR PTOKEN AREAS.
Created by: ISSUERS OF THE MGCR MACRO
Pointed to by: REGISTER 1 (SET UP BY MGCR MACRO)
Serialization: NONE
Function: PARAMETER LIST FOR THE MGCR MACRO.

MGCRPL Map

| Offsets | | | | | |
|---------|-----|------------|-----|--------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | MGCRPL | |
| 0 | (0) | BITSTRING | 1 | MGCRFLG1 | FLAGS FIELD |
| | | 1... | | MGCRFI | "BIT0" MGCRFLG2 IS VALID |
| 1 | (1) | BITSTRING | 1 | MGCRLGTH | LENGTH OF BUFFER EXCLUDING TOKENS |
| 2 | (2) | BITSTRING | 2 | MGCRFLG2 (0) | FLAGS FIELD |
| 2 | (2) | BITSTRING | 1 | MGCRFLGA | |
| | | 1... | | MGCRSV00 | "BIT0" RESERVED |
| | | .1.. | | MGCRSSI | "BIT1" SUBSYSTEM ISSUED COMMAND, FOR CONTROL PROGRAM USAGE ONLY |
| | | ..1. | | MGCRCMD | "BIT2" IEAVC700 ISSUED COMMAND, FOR CONTROL PROGRAM USAGE ONLY |
| | | ...1 | | MGCRHCPY | "BIT3" SUPPRESS HARDCOPY, FOR CONTROL PROGRAM USAGE ONLY |
| | | 1... | | MGCRTOK | "BIT4" INDICATES MGCRPTKN CONTAINS A PROGRAM TOKEN |
| | |1.. | | MGCRIDSP | "BIT5" RESERVED FOR COMPATIBILITY W/ MGCRE |
| | |1. | | MGCRNMSP | "BIT6" RESERVED FOR COMPATIBILITY W/ MGCRE |
| | |1 | | MGCRAUSP | "BIT7" RESERVED FOR COMPATIBILITY W/ MGCRE |
| 3 | (3) | BITSTRING | 1 | MGCRFLGB | FLAGS FIELD |
| | | 1... | | MGCRFAST | "BIT0" RESERVED FOR COMPATIBILITY W/ MGCRE |
| | | .1.. | | MGCRNPFx | "BIT1" RESERVED FOR COMPATIBILITY W/ MGCRE |
| | | ..1. | | MGCRCTSP | "BIT2" RESERVED FOR COMPATIBILITY W/ MGCRE |
| | | ...1 | | MGCRPASS | "BIT3" COMMAND QUEUED FROM CONSOLXX |
| | | 1... | | MGCRUTOK | "BIT4" MGCRUTKN CONTAINS A UTOKEN |
| | |1.. | | MGCRRTD | "BIT5" RESERVED FOR COMPATIBILITY W/ MGCRE |
| | |1. | | MGCRENBY | "BIT6" RESERVED FOR APAR REWORK |
| | |1 | | MGCRDFER | "BIT7" DEFERRED COMMAND EXECUTION DURING NIP |
| 4 | (4) | CHARACTER | 126 | MGCRTEXT | MAXIMUM SIZE OF COMMAND TEXT |
| 4 | (4) | X'82' | 0 | MGCRLTH | "*-MGCRPL" LENGTH OF COMMAND BUFFER EXCLUDING TOKENS |
| 4 | (4) | X'82' | 0 | MGCREND | *** END OF COMMAND BUFFER BEFORE TOKENS |
| 4 | (4) | X'0' | 0 | MGCRTOKN | "MGCRPL,4,C'C" COMPATABILITY WITH PRE-SP3.1.3 *** |

| Offsets | | | | | |
|---------|-----|------------|-----|------------|--------------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | MGCRPTOK | TO MAP THE PROGRAM TOKEN |
| 0 | (0) | CHARACTER | 4 | MGCRPTKN | PROGRAM TOKEN |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|------------|---------------------------|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | MGCRSTOK | TO MAP THE SECURITY TOKEN |
| 0 | (0) | CHARACTER | 80 | MGCRUTKN | SECURITY TOKEN (UTOKEN) |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | MGCRPL | |
| 0 | (0) | X'86' | 0 | MGCRSIZ | "MGCRPTH+L'MGCRPTKN" MAXIMUM LENGTH OF COMMAND BUFFER EXCLUDING SECURITY TOKEN (UTOKEN) |
| 0 | (0) | X'D2' | 0 | MGCRSIZA | "MGCRPTH+L'MGCRUTKN" MAXIMUM LENGTH OF COMMAND BUFFER EXCLUDING PROGRAM TOKEN |
| 0 | (0) | X'D6' | 0 | MGCRSIZB | "MGCRPTH+L'MGCRPTKN+L'MGCRUTKN" MAXIMUM LENGTH OF COMMAND BUFFER INCLUDING BOTH TOKENS |

MGCRPL Cross Reference

| Name | Hex Offset | Hex Value |
|-----------|------------|-----------|
| MGCRPAUSP | 2 | 1 |
| MGCRCMD | 2 | 20 |
| MGCRCTSP | 3 | 20 |
| MGCRDFER | 3 | 1 |
| MGCRENBY | 3 | 2 |
| MGCREND | 4 | 82 |
| MGCRFAST | 3 | 80 |
| MGCRFI | 0 | 80 |
| MGCRFLGA | 2 | |
| MGCRFLGB | 3 | |
| MGCRFLG1 | 0 | |
| MGCRFLG2 | 2 | |
| MGCRHCPY | 2 | 10 |
| MGCRIDSP | 2 | 4 |
| MGCRLGTH | 1 | |
| MGCRPTH | 4 | 82 |
| MGCRNMSP | 2 | 2 |
| MGCRNPFX | 3 | 40 |
| MGCRPASS | 3 | 10 |
| MGCRPL | 0 | |
| MGCRPL | 0 | |
| MGCRPTKN | 0 | |
| MGCRPTOK | 0 | |
| MGCRRTD | 3 | 4 |
| MGCRSIZ | 0 | 86 |
| MGCRSIZA | 0 | D2 |
| MGCRSIZB | 0 | D6 |
| MGCRSSI | 2 | 40 |
| MGCRSTOK | 0 | |
| MGCRSV00 | 2 | 80 |
| MGCRTEXT | 4 | |
| MGCRTOK | 2 | 8 |
| MGCRTOKN | 4 | 0 |
| MGCRUTKN | 0 | |
| MGCRUTOK | 3 | 8 |

MIO Heading Information

Common Name: Message Input/Output Block Mapping Macro
Macro ID: CNLMMIO
DSECT Name: MIO MIOMSG
Owning Component: MVS Message Service
Eye-Catcher ID: 'MIO '
 Offset: 0
 Length: 4
Storage Attributes: Subpool: of caller
 Key: of caller
 Residency: of caller
Size: N/A
Created by: Callers of Translate message (using TRANMSG macro)
Pointed to by: MIO_PTR
Serialization: None required.
Function: Used to map the Message Input/Output Block used for input and output by Translate Message user function. Variable length portion consists of one message entry for each message to be processed.

MIO Map

| Offsets | | | | | |
|---------|------|------------|-----|-------------|------------------------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | MIO | |
| 0 | (0) | CHARACTER | 4 | MIOACRN | ACRONYM "MIO" |
| 4 | (4) | BITSTRING | 1 | MIOVRSN | MIO VERSION NUMBER |
| 5 | (5) | CHARACTER | 3 | MIOLANG | TRANSLATION LANGUAGE |
| 8 | (8) | SIGNED | 4 | MIOSIZE | SIZE OF THIS MIO |
| 12 | (C) | ADDRESS | 4 | MIOBFPTR | ADDRESS OF OUTPUT BUFFER |
| 16 | (10) | SIGNED | 4 | MIOBFSIZ | SIZE OF OUTPUT BUFFER |
| 20 | (14) | SIGNED | 4 | MIOBFUSD | SPACE USED IN OUTPUT BUFFER |
| 24 | (18) | SIGNED | 4 | MIOTRUNC | NUMBER OF MESSAGE TRUNCATED |
| 28 | (1C) | SIGNED | 4 | MIOXLATE | NUMBER OF 1ST MESSAGE TO TRANSLATE |
| 32 | (20) | BITSTRING | 1 | MIOFLAGS | MIO FLAGS |
| | | 1... | | MIOUXLAT | "X'80" TRANSLATE INVOCATION |
| | | .1.. | | MIOUPRMZ | "X'40" PARAMETERIZE INVOCATION |
| 33 | (21) | CHARACTER | 3 | | RESERVED |
| 36 | (24) | SIGNED | 4 | MIOMSGNO | NUMBER OF MESSAGE ENTRIES |
| 40 | (28) | SIGNED | 4 | MIOOFFST | OFFSET TO 1ST MESSAGE ENTRY |
| 44 | (2C) | SIGNED | 2 | MIOMIDL | LENGTH OF MESSAGE IDENTIFIER |
| 46 | (2E) | CHARACTER | 22 | MIOMID | MESSAGE IDENTIFIER |
| 68 | (44) | CHARACTER | 8 | | RESERVED |
| 76 | (4C) | SIGNED | 4 | MIOVDATL | LENGTH OF MESSAGE ENTRY AREA |
| 80 | (50) | SIGNED | 2 | MIOVDAT (0) | MIO VARIABLE SECTION |

| Offsets | | | | | |
|---------|-----|------------|-----|--------------|----------------------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | MIOMSG | MIO MESSAGE ENTRY MAPPING |
| 0 | (0) | ADDRESS | 4 | MIOINPTP | POINTER TO INPUT MTB/MPB/TEXT |
| 4 | (4) | ADDRESS | 4 | MIOBUFFP | POINTER TO OUTPUT MTB/MPB |
| 8 | (8) | SIGNED | 4 | MIOFREAS (0) | FULLWORD REASON CODE |
| 8 | (8) | SIGNED | 2 | MIOMODID | MODULE ID |
| 10 | (A) | SIGNED | 2 | MIOREASN | REASON CODE |
| 12 | (C) | BITSTRING | 1 | MIOINFL | FLAGS FOR INPUT DATA |
| | | 1... | | MIOXLATF | "X'80" TRANSLATE THIS INPUT DATA |

MIO Cross Reference

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|------------|--------------------------------------|
| Dec | Hex | | | | |
| | | .1.. | | MIOCONT | "X'40'" CONTINUATION OF PREVIOUS MSG |
| 13 | (D) | BITSTRING | 1 | MIOOUTFL | FLAGS FOR OUTPUT DATA |
| | | 1... | | MIOXLERR | "X'80'" TRANSLATION ERROR |
| 14 | (E) | BITSTRING | 1 | MIOINTFL | INTERNAL FLAGS |
| | | 1... | | MIOPRMZ | "X'80'" MESSAGE PARAMETERIZED |
| | | .1.. | | MIOEMBED | "X'40'" EMBEDDED MESSAGE |
| 15 | (F) | CHARACTER | 1 | | RESERVED |
| 15 | (F) | X'10' | 0 | MIOMSGL | "*-MIOMSG" LENGTH OF MIOMSG |

MIO Cross Reference

| Name | Hex Offset | Hex Value |
|----------|------------|-----------|
| MIO | 0 | |
| MIOACRN | 0 | |
| MIOBFPTR | C | |
| MIOBFSIZ | 10 | |
| MIOBFUSD | 14 | |
| MIOBUFFP | 4 | |
| MIOCONT | C | 40 |
| MIOEMBED | E | 40 |
| MIOFLAGS | 20 | |
| MIOFREAS | 8 | |
| MIOINFL | C | |
| MIOINPTP | 0 | |
| MIOINTFL | E | |
| MIOLANG | 5 | |
| MIOMID | 2E | |
| MIOMIDL | 2C | |
| MIOMODID | 8 | |
| MIOMSG | 0 | |
| MIOMSGL | F | 10 |
| MIOMSGNO | 24 | |
| MIOFFST | 28 | |
| MIOOUTFL | D | |
| MIOPRMZ | E | 80 |
| MIOREASN | A | |
| MIOSIZE | 8 | |
| MIOTRUNC | 18 | |
| MIOUPRMZ | 20 | 40 |
| MIOUXLAT | 20 | 80 |
| MIOVDAT | 50 | |
| MIOVDATL | 4C | |
| MIOVRSN | 4 | |
| MIOXLATE | 1C | |
| MIOXLATF | C | 80 |
| MIOXLERR | D | 80 |

MIR Heading Information

Common Name: MIR - Missing Interrupt Logrec Records
Macro ID: IOSDMIR
DSECT Name: MIR
Owning Component: IOS (SC1C3)
Eye-Catcher ID: None
Storage Attributes: Subpool: 245
 Key: 0
 Residency: Above 16M line
Size: 164 bytes
Created by: IOS Missing Interrupt Handler (IOSRMIHL)
Pointed to by: N/A
Serialization: None
Function: Maps the missing interrupt logrec record.

MIR Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|--|------|------------|-----|------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 164 | MIR | |
| 0 | (0) | CHARACTER | 24 | MIRHEADR | LOGREC header - See IHAHDR mapping macro for field descriptions. The MIH record type is X'71'. |
| 24 | (18) | CHARACTER | 140 | MIRDATA | MIH record dependent area----- |
| 24 | (18) | CHARACTER | 8 | MIRJOBNM | JOBNAME from ASID initiating I/O request, or blank |
| 32 | (20) | CHARACTER | 52 | MIRSCHIB | Subchannel Information Block, (SCHIB), obtained from the Store Subchannel issued in IOSRMIHP. |
| 84 | (54) | CHARACTER | 8 | MIRINTVL | MIH detection interval (EBCDIC) |
| ----- | | | | | |
| | | | | | Comment |
| ----- | | | | | |
| | | | | | End of Comment |
| 92 | (5C) | CHARACTER | 1 | MIRTYPE | Type of missing interrupt |
| ----- | | | | | |
| | | | | | Comment |
| ----- | | | | | |
| MIH condition being recorded | | | | | |
| X'80' --- 1... - Missing CSCH interrupt | | | | | |
| X'40' --- .1.. - Missing HSCH interrupt | | | | | |
| X'20' --- ..1. - Idle device with work queued | | | | | |
| X'10' --- ...1 - Start pending in Subchannel | | | | | |
| X'08' --- 1... - I/O timeout condition | | | | | |
| X'04' ---1.. - Mount pending | | | | | |
| X'02' ---1. - Missing primary status | | | | | |
| (channel and device end) | | | | | |
| X'01' ---1 - Missing secondary status | | | | | |
| (device end) | | | | | |
| ----- | | | | | |
| | | | | | End of Comment |
| 93 | (5D) | BITSTRING | 1 | MIRACTND | Default actions - as set by IOSRMIHP (MIH detection). |
| 94 | (5E) | BITSTRING | 1 | MIRACTNA | Attempted actions - passed to IOSRMIHR from IOSRMIHP (adjustments made by MIH exit). |
| 95 | (5F) | BITSTRING | 1 | MIRACTNS | Actually tried actions performed by IOSRMIHR. |

MIR Map

| Offsets | | | | | |
|--|------|------------|-----|--------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| ----- | | | | | |
| MIH action bytes - following bit mapping apply to all three action fields. | | | | | |
| ----- | | | | | |
| X'80' --- 1... - Halt or Clear Subchannel | | | | | |
| X'40' --- .1.. - Simulate an I/O interrupt | | | | | |
| X'20' --- ..1. - Redrive the device | | | | | |
| X'10' --- ...1 - Requeue the I/O request | | | | | |
| X'08' --- 1... - Issue message | | | | | |
| X'04' ---1.. - LOG the condition (always ON) | | | | | |
| X'02' ---1. - (Reserved for future use) | | | | | |
| X'01' ---1 - (Reserved for future use) | | | | | |
| ----- | | | | | |
| Selected fields from the device UCB prefix area | | | | | |
| ----- | | | | | |
| End of Comment | | | | | |
| 96 | (60) | CHARACTER | 24 | MIRUCBPX | UCB Prefix selected fields |
| 96 | (60) | SIGNED | 4 | MIRPSID | UCBSID |
| 100 | (64) | BITSTRING | 2 | MIRPPMCW | UCBPMCW1 |
| 102 | (66) | BITSTRING | 1 | MIRPLPM | UCBLPM |
| 103 | (67) | BITSTRING | 1 | MIRPLPUM | UCBLPUM |
| 104 | (68) | BITSTRING | 1 | MIRPPIM | UCBPIM |
| 105 | (69) | UNSIGNED | 1 | MIRPCHPS (8) | UCBCHPID |
| 113 | (71) | UNSIGNED | 1 | MIRPLEVL | UCBLEVEL |
| 114 | (72) | BITSTRING | 1 | MIRPIOSF | UCBIOF1 |
| 115 | (73) | BITSTRING | 4 | MIRPLVMS | UCBLVMSK |
| 119 | (77) | BITSTRING | 1 | MIRPMIHT | UCBMIHTI |
| ----- | | | | | |
| Comment | | | | | |
| ----- | | | | | |
| Selected fields from the device UCB common area | | | | | |
| ----- | | | | | |
| End of Comment | | | | | |
| 120 | (78) | CHARACTER | 10 | MIRUCBCS | UCB Common area selected fields |
| 120 | (78) | BITSTRING | 1 | * | |
| | | 1... | | MIRUALTC | UCBALTCU |
| 121 | (79) | BITSTRING | 1 | MIRUFLC | UCBFLC |
| 122 | (7A) | CHARACTER | 2 | MIRUCHAN | UCBCHAN (Note: This is the alias device number if device is a parallel access volume) |
| 124 | (7C) | CHARACTER | 2 | MIRUSFLS | UCBSFLS |
| 126 | (7E) | CHARACTER | 4 | MIRUTYPE | UCBTYP |
| ----- | | | | | |
| Comment | | | | | |
| ----- | | | | | |
| Selected fields from the device UCB device dependent area. Provided for DASD and TAPE only. | | | | | |
| ----- | | | | | |
| End of Comment | | | | | |
| 130 | (82) | CHARACTER | 8 | MIRUCBDS | Device dependent UCB segment |
| 130 | (82) | CHARACTER | 6 | MIRDVOLI | UCBVOLI |
| 136 | (88) | BITSTRING | 1 | * | |
| | | 1... | | MIRDMOUN | UCBMOUNT |
| 137 | (89) | BITSTRING | 1 | MIRDFL4 | UCBFL4 (DASD only) |

| Offsets | | | | | |
|---|------|------------|-----|------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| Comment | | | | | |
| ----- | | | | | |
| MIH record flag bytes | | | | | |
| ----- | | | | | |
| End of Comment | | | | | |
| 138 | (8A) | BITSTRING | 1 | MIRFLAG1 | MIH record flags |
| | | 1... | | MIRADDL1 | MIH record additional data flag bit 1. |
| | | .1... | | MIRPAV | Device is parallel access volume |
| | | ..11 1111 | | * | MIH record reserved flags. |
| 139 | (8B) | BITSTRING | 1 | MIRFLAG2 | MIH record reserved flags |
| Comment | | | | | |
| ----- | | | | | |
| MIH condition reason code associated with the MIH condition field MIRTYPE. | | | | | |
| ----- | | | | | |
| End of Comment | | | | | |
| 140 | (8C) | BITSTRING | 1 | MIRRSNC | MIH condition reason code |
| 141 | (8D) | CHARACTER | 2 | MIRBDEVN | UCBCHAN from base UCB for a parallel access volume (valid if MIRPAV is set) |
| 143 | (8F) | CHARACTER | 1 | * | Reserved |
| Comment | | | | | |
| ----- | | | | | |
| IOS services return codes for the Store Subchannel, Halt Subchannel and Clear Subchannel requests issued by MIH. With field X'FF', the IOS service function not issued. | | | | | |
| ----- | | | | | |
| End of Comment | | | | | |
| 144 | (90) | CHARACTER | 1 | MIRHLTRC | Halt request return code from IOSVHSCH. |
| 145 | (91) | CHARACTER | 1 | MIRCLRRC | Clear request return code from IOSVHSCH. |
| 146 | (92) | CHARACTER | 1 | MIRSTRC1 | Store Subchannel request return code from IOSVSTSQ, issued in IOSRMIHP. |
| 147 | (93) | CHARACTER | 1 | MIRSTRC2 | Store Subchannel request return code from IOSVSSCQ, issued in IOSRMIHR for Start Pending. |
| Comment | | | | | |
| ----- | | | | | |
| The first word of the IRB from the CSCH interruption, which includes the subchannel control fields (which includes the clear pending bit). | | | | | |
| ----- | | | | | |
| End of Comment | | | | | |
| 148 | (94) | CHARACTER | 4 | MIRCIRB1 | CSCH IRB word 1. |
| Comment | | | | | |
| ----- | | | | | |
| The first word of the IRB in the SCHIB as a result of the Store Subchannel in IOSRMIHR for Start Pending MIH condition. | | | | | |
| ----- | | | | | |
| End of Comment | | | | | |
| 152 | (98) | CHARACTER | 4 | MIRSIRB1 | STSCH SCHIB IRB word 1. |

MIR Cross Reference

| Offsets | | Type/Value | Len | Name (Dim) | Description | | |
|---------------------------|------|------------|-----|------------|----------------|--|--|
| Dec | Hex | | | | | | |
| | | | | | Comment | | |
| ----- | | | | | | | |
| Reserved for future data. | | | | | | | |
| ----- | | | | | | | |
| | | | | | End of Comment | | |
| 156 | (9C) | CHARACTER | 8 | MIRRSV2 | Reserved | | |

MIR Cross Reference

| Name | Hex Offset | Hex Value |
|-----------|------------|-----------|
| MIR | 0 | |
| MIRACTNA | 5E | |
| MIRACTND | 5D | |
| MIRACTNS | 5F | |
| MIRADDL1 | 8A | 80 |
| MIRBDEVN | 8D | |
| MIRCIRB1 | 94 | |
| MIRCLRRRC | 91 | |
| MIRDATA | 18 | |
| MIRDFL4 | 89 | |
| MIRDMOUN | 88 | 80 |
| MIRDVOLI | 82 | |
| MIRFLAG1 | 8A | |
| MIRFLAG2 | 8B | |
| MIRHEADR | 0 | |
| MIRHLTRC | 90 | |
| MIRINTVL | 54 | |
| MIRJOBNM | 18 | |
| MIRPAV | 8A | 40 |
| MIRPCHPS | 69 | |
| MIRPIOSF | 72 | |
| MIRPLEVL | 71 | |
| MIRPLPM | 66 | |
| MIRPLPUM | 67 | |
| MIRPLVMS | 73 | |
| MIRPMIHT | 77 | |
| MIRPPIM | 68 | |
| MIRPPMCW | 64 | |
| MIRPSID | 60 | |
| MIRRSNC | 8C | |
| MIRRSV2 | 9C | |
| MIRSCHIB | 20 | |
| MIRSIRB1 | 98 | |
| MIRSTRC1 | 92 | |
| MIRSTRC2 | 93 | |
| MIRTYPE | 5C | |
| MIRUALTC | 78 | 80 |
| MIRUCBCS | 78 | |
| MIRUCBDS | 82 | |
| MIRUCBPX | 60 | |
| MIRUCHAN | 7A | |
| MIRUFLC | 79 | |
| MIRUSFLS | 7C | |
| MIRUTYPE | 7E | |

MMB Heading Information

Common Name: MONITOR MESSAGE BLOCK
Macro ID: IEAMMB
DSECT Name: MMB
Owning Component: SUPERVISOR CONTROL (SC1C5)
Eye-Catcher ID: MMB
 Offset: 0
 Length: 4
Storage Attributes: Subpool: 250
 Key: 0
Size: 144 BYTES
Created by: IEAVMWSV
Pointed to by: UCMMBPTR FIELD OF THE UCM DATA AREA
 (FIRST MMB)
 UCMMBEND FIELD OF THE UCM DATA AREA
 (LAST MMB)
 MMBLINK FIELD OF THE MMB DATA AREA
 (NEXT MMB)
Serialization: NONE
Function: A MONITOR MESSAGE BLOCK IS CREATED FOR EACH
 WQE QUEUED FOR TPUT TO MONITORING TERMINALS

MMB Map

| Offsets | | | | | |
|---------|------|------------|-----|------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | MMB | |
| 0 | (0) | CHARACTER | 4 | MMBNAME | BLOCK ID - MMB IN EBCDIC LEFT JUSTIFIED |
| 4 | (4) | ADDRESS | 4 | MMBLINK | POINTER TO NEXT MMB OR ZERO |
| 8 | (8) | ADDRESS | 4 | MMBBKPTR | POINTER TO PREVIOUS MMB OR ZERO |
| 12 | (C) | SIGNED | 2 | MMBTXLN | LENGTH OF TEXT |
| 14 | (E) | SIGNED | 2 | MMBTYP (0) | MONITOR TYPE FLAGS |
| 14 | (E) | BITSTRING | 1 | MMBTYP1 | - FIRST BYTE OF MONITOR TYPE FLAGS |
| | | 1... .. | | MMBJBNM | "BIT0" - MONITOR JOBNAMES |
| | | .1.. .. | | MMBSTAT | "BIT1" - MONITOR STATUS |
| | | ..1. | | MMBRSV01 | "BIT2" - RESERVED |
| | | ...1 | | MMBRSV02 | "BIT3" - RESERVED |
| | | 1... | | MMBRSV03 | "BIT4" - RESERVED |
| | |1.. | | MMBSESS | "BIT5" - MONITOR SESSIONS |
| | |1. | | MMBRSV04 | "BIT6" - RESERVED |
| | |1 | | MMBRSV05 | "BIT7" - RESERVED |
| 15 | (F) | BITSTRING | 1 | MMBTYP2 | - SECOND BYTE OF MONITOR TYPE FLAGS |
| 16 | (10) | CHARACTER | 128 | MMBTEXT | - MESSAGE TEXT |
| 16 | (10) | X'90' | 0 | MMBSIZE | "*-MMB" LENGTH OF MMB |

MMB Cross Reference

MMB Cross Reference

| Name | Hex Offset | Hex Value |
|----------|---------------|--------------|
| MMB | 0 | |
| MMBBKPTR | 8 | |
| MMBJBNM | E | 80 |
| MMBLINK | 4 | |
| MMBNAME | 0 | |
| MMBRSV01 | E | 20 |
| MMBRSV02 | E | 10 |
| MMBRSV03 | E | 8 |
| MMBRSV04 | E | 2 |
| MMBRSV05 | E | 1 |
| MMBSESS | E | 4 |
| MMBSIZE | 10 | 90 |
| MMBSTAT | E | 40 |
| MMBTEXT | 10 | |
| MMBTXLN | C | |
| MMBTYP | E | |
| MMBTYP1 | E | |
| MMBTYP2 | F | |

MPB Programming Interface information

Programming Interface information

MPB

End of Programming Interface information

MPB Heading Information

Common Name: Message Parameter Block Mapping Macro
Macro ID: CNLMMPB
DSECT Name: MPB MPBMSG MPBSB
Owning Component: MVS MESSAGE SERVICE (SCMMS)
Eye-Catcher ID: 'MPB '
 Offset: 0
 Length: 4

Storage Attributes: Subpool: of caller
 Key: of caller
 Residency: of caller

Size: Variable based on size of message being processed.
 The size of this entry is located in MPBSIZE.

Created by: Callers of Message Translate (TRANMSG)
 Callers of MPB build macros (BLDMPB,UPDTMPB)

Pointed to by: MIOINPTP field of the MIO area (input)
 MIOBUFFP field of the MIO area (output)
 MPB_PTR

Serialization: None required.

Function: Used to map the Message Parameter Block which contains a parameterized message. The variable length portion contains a message header followed by all substitution tokens for the message. It is used as a parameter list for the Message Translate Service (TRANMSG).

MPB Map

| Offsets | | | | | |
|---------|------|------------|-----|--------------|----------------------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | MPB | MESSAGE PARAMETER BLOCK |
| 0 | (0) | CHARACTER | 4 | MPBACRN | ACRONYM "MPB" |
| 4 | (4) | BITSTRING | 1 | MPBVRSN | MPB VERSION NUMBER |
| 5 | (5) | CHARACTER | 3 | | RESEVERED |
| 8 | (8) | SIGNED | 4 | MPBSIZE | SIZE OF THIS MPB |
| 12 | (C) | SIGNED | 4 | MPBOFFST | OFFSET TO MESSAGE HEADER BLOCK |
| 16 | (10) | CHARACTER | 8 | | RESERVED |
| 24 | (18) | SIGNED | 4 | MPBVDTL | LENGTH OF THE VARIABLE DATA AREA |
| 28 | (1C) | CHARACTER | 1 | MPBVDTAT (0) | SPACE USED IN OUTPUT BUFFER |

| Offsets | | | | | |
|---------|------|------------|-----|------------|------------------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | MPBMSG | MPB HEADER BLOCK |
| 0 | (0) | CHARACTER | 3 | MPBFMTNM | MESSAGE FORMAT NUMBER |
| 3 | (3) | CHARACTER | 2 | MPBLNNM | MESSAGE LINE NUMBER |
| 5 | (5) | CHARACTER | 3 | | RESERVED |
| 8 | (8) | SIGNED | 4 | MPBSBCNT | COUNT OF SUBSTITUTION BLOCKS |
| 12 | (C) | SIGNED | 4 | MPBMIDL | LENGTH OF MESSAGE IDENTIFIER |
| 16 | (10) | CHARACTER | 1 | MPBMID (0) | MESSAGE IDENTIFIER |

| Offsets | | | | | |
|---------|-----|------------|-----|------------|----------------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | MPBSB | MESSAGE SUBSTITUTION BLOCK |
| 0 | (0) | CHARACTER | 1 | MPBSBTYP | TYPE OF SUBSTITUTION BLOCK |
| 1 | (1) | CHARACTER | 3 | | RESERVED |
| 4 | (4) | SIGNED | 4 | MPBTOKNL | LENGTH OF THE TOKEN NAME |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|-----------------------------|
| Dec | Hex | | | | |
| 8 | (8) | CHARACTER | 16 | MPBTOKN | TOKEN NAME |
| 24 | (18) | SIGNED | 4 | MPBSUBL | LENGTH OF SUBSTITUTION DATA |
| 28 | (1C) | CHARACTER | 1 | MPBSUB (0) | SUBSTITUTION DATA |

MPB Cross Reference

| Name | Hex Offset | Hex Value |
|-----------|---------------|--------------|
| MPB | 0 | |
| MPBACRN | 0 | |
| MPBFMTNM | 0 | |
| MPBLNNM | 3 | |
| MPBMID | 10 | |
| MPBMIDL | C | |
| MPBMSG | 0 | |
| MPBOFFST | C | |
| MPBSB | 0 | |
| MPBSBCNT | 8 | |
| MPBSBTYP | 0 | |
| MPBSIZE | 8 | |
| MPBSUB | 1C | |
| MPBSUBL | 18 | |
| MPBTOKN | 8 | |
| MPBTOKNL | 4 | |
| MPBV DAT | 1C | |
| MPBV DATL | 18 | |
| MPBVRSN | 4 | |

MPFT Heading Information

Common Name: MESSAGE PROCESSING FACILITY TABLE (MPFT) MAPPING MACRO
Macro ID: IEEZB809
DSECT Name: MPFT, MPFTENTY
Owning Component: SYSTEM COMMAND (SC1B8)
Eye-Catcher ID: MPFT
 Offset: 0
 Length: 4
Storage Attributes: Main Storage: YES
 Virtual Storage: NO
 Subpool: 241 (CSA)
 Key: 0
 Data Space: NO
 Residency: ANY
Size: 64 BYTES for MPFT
 40 BYTES per table entry for MPFTENTY
Created by: IEECB805
Pointed to by: UCMFMPFP field of the IEECUCM data area
Serialization: The MPF table is serialized on via an ENQ on the
 SYSZMCS.MPFTABLE resource. An exclusive ENQ is required
 to change or delete the table.
Function: Contains a sorted list of message ID's
 and/or prefixes that are eligible for
 processing by MPF.

MPFT Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 64 | MPFT | MPF TABLE |
| 0 | (0) | CHARACTER | 4 | MPFTACRN | CHARACTERS 'MPFT' |
| 4 | (4) | UNSIGNED | 1 | MPFTVRSN | VERSION LEVEL |
| 5 | (5) | BITSTRING | 1 | MPFTFLG | MPF FLAGS |
| | | 1... | | MPFTDFLT | MPF .NOENTRY MESSAGE ID FOUND |
| | | .1.. | | MPFTDSUP | MPF .NOENTRY SUP(YES) |
| | | ..1. | | MPFTDRET | MPF .NOENTRY RETENTION INDICATOR FOR DISPLAY |
| | | | | | MPF OUTPUT |
| | | ...1 | | MPFTDAUT | MPF .NOENTRY AUTO(YES) |
| | | 1... | | MPFTDRYS | MPF .NOENTRY RETAIN(YES) |
| | |1.. | | MPFTDRI | MPF .NOENTRY RETAIN(I) |
| | |1. | | MPFTDRE | MPF .NOENTRY RETAIN(E) |
| | |1 | | MPFTDRCE | MPF .NOENTRY RETAIN(CE) |
| 6 | (6) | BITSTRING | 1 | MPFTFLG2 | MPF FLAG BYTE TWO |
| | | 1... | | MPFTDSPA | MPF .NOENTRY SUP(ALL) |
| 7 | (7) | CHARACTER | 1 | MPFTRSV4 | RESERVED |
| 8 | (8) | UNSIGNED | 1 | MPFTSPN | SUBPOOL NUMBER |
| 9 | (9) | UNSIGNED | 3 | MPFTSIZE | SIZE OF MPF TABLE TOTAL |
| 12 | (C) | UNSIGNED | 2 | MPFTNENG | NUMBER OF ENTRIES IN GENERIC TABLE |
| 14 | (E) | UNSIGNED | 2 | MPFTNENS | NUMBER OF ENTRIES IN SPECIFIC TABLE |
| 16 | (10) | UNSIGNED | 2 | MPFTENLN | LENGTH OF EACH ENTRY |
| 18 | (12) | UNSIGNED | 2 | MPFTRSV3 | Reserved |
| 20 | (14) | ADDRESS | 4 | MPFTGENP | POINTER TO THE FIRST ENTRY IN GENERIC TABLE |
| 24 | (18) | ADDRESS | 4 | MPFTSENP | POINTER TO THE FIRST ENTRY IN SPECIFIC TABLE |
| 28 | (1C) | SIGNED | 4 | MPFTRSV5 | reserved |
| 32 | (20) | SIGNED | 4 | MPFTCECB | SET MPF COMMAND ECB |
| 36 | (24) | ADDRESS | 4 | MPFTASCB | ASCB ADDRESS OF IEECB805 TASK FOR IEAVM700 POST |
| 40 | (28) | CHARACTER | 8 | MPFTDATK | MPF .NOENTRY TOKEN |

MPFT Constants

| Offsets | | | | | |
|---------|------|------------|-----|------------|----------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 48 | (30) | CHARACTER | 4 | MPFTRSV1 | RESERVED |
| 52 | (34) | UNSIGNED | 2 | MPFTDALN | LENGTH OF DATA AREAS |
| 54 | (36) | CHARACTER | 2 | MPFTRSV2 | RESERVED |
| 56 | (38) | CHARACTER | 8 | MPFTRSV | RESERVED |

| Offsets | | | | | |
|---------|------|------------|-----|------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 40 | MPFTENTY | MPF TABLE ENTRY MAPPING |
| 0 | (0) | CHARACTER | 10 | MPFMSGID | MESSAGE ID |
| 10 | (A) | UNSIGNED | 1 | MPFTIDLN | LENGTH OF MESSAGE ID |
| 11 | (B) | BITSTRING | 1 | MPFTEFLG | ENTRY FLAGS |
| | | 1... | | MPFTPREF | PREFIX ENTRY |
| | | .1.. | | MPFSUPMS | SUPPRESS THE MESSAGE |
| | | ..1. | | MPFABEND | USER EXIT ROUTINE ABENDED |
| | | ...1 | | MPFNTFND | USER EXIT ROUTINE NOT FOUND |
| | | 1... | | MPFXACTV | EXIT IS ACTIVE |
| | |1.. | | MPFRETAN | RETENTION INDICATOR FOR DISPLAY MPF OUTPUT |
| | |1. | | MPFAUTO | AUTOMATION SPECIFIED FOR THIS MSG |
| | |1 | | MPFSUPA | SUPPRESS ALL MESSAGES INCLUDING COMMAND RESPONSES |
| 12 | (C) | CHARACTER | 8 | MPFEXNME | USER EXIT ROUTINE MODULE NAME |
| 20 | (14) | ADDRESS | 4 | MPFEXENT | ADDRESS OF ENTRY POINT |
| 24 | (18) | CHARACTER | 8 | MPFAUTOT | AUTOMATION TOKEN VALUE |
| 32 | (20) | ADDRESS | 4 | MPFTIWKP | POINTER TO 8-BYTE DATA AREA FOR AN INDIVIDUAL EXIT |
| 36 | (24) | BITSTRING | 1 | MPFRFLGS | INDIVIDUAL RETENTION FLAGS |
| | | 1... | | MPFRETY5 | RETAIN ALL ACTION MSGS |
| | | .1.. | | MPFRETI | RETAIN IF IMMEDIATE ACTION MSG |
| | | ..1. | | MPFRETE | RETAIN IF EVENTUAL ACTION MSG |
| | | ...1 | | MPFRETC | RETAIN IF CRITICAL EVENTUAL ACTION MSG |
| | | 1111 | | * | RESERVED |
| 37 | (25) | CHARACTER | 2 | MPFSUFFIX | INDIVIDUAL SUFFIX |
| 39 | (27) | CHARACTER | 1 | * | RESERVED |

MPFT Constants

| Len | Type | Value | Name | Description |
|---|-----------|-------|----------|----------------------|
| <div> <div>Comment</div> <div> <p>THE ACRONYM AND VERSION NUMBER TO BE PLACED IN THE MPF TABLE.</p> </div> <div>End of Comment</div> </div> | | | | |
| 4 | CHARACTER | MPFT | MPFTNAME | ACRONYM |
| 1 | DECIMAL | | MPFTS212 | LEVEL OS/VS2 JBB2125 |
| 1 | DECIMAL | | MPFTS410 | LEVEL OS/VS2 HBB4410 |
| 1 | DECIMAL | | MPFTS422 | LEVEL OS/VS2 JBB4422 |
| 1 | DECIMAL | | MPFTVERN | CURRENT VERSION |

MPFT Cross Reference

| Name | Hex Offset | Hex Value |
|----------|---------------|--------------|
| MPFABEND | B | 20 |
| MPFAUTO | B | 02 |
| MPFAUTOT | 18 | |
| MPFEXENT | 14 | |
| MPFEXNME | C | |
| MPFMSGID | 0 | |
| MPFNTFND | B | 10 |
| MPFRETAN | B | 04 |
| MPFRETCE | 24 | 10 |
| MPFRETE | 24 | 20 |
| MPFRETI | 24 | 40 |
| MPFRETYS | 24 | 80 |
| MPFRFLGS | 24 | |
| MPFSUFFX | 25 | |
| MPFSUPA | B | 01 |
| MPFSUPMS | B | 40 |
| MPFT | 0 | |
| MPFTACRN | 0 | |
| MPFTASCB | 24 | |
| MPFTCECB | 20 | |
| MPFTDALN | 34 | |
| MPFTDATK | 28 | |
| MPFTDAUT | 5 | 10 |
| MPFTDFLT | 5 | 80 |
| MPFTDRCE | 5 | 01 |
| MPFTDRE | 5 | 02 |
| MPFTDRET | 5 | 20 |
| MPFTDRI | 5 | 04 |
| MPFTDRYS | 5 | 08 |
| MPFTDSPA | 6 | 80 |
| MPFTDSUP | 5 | 40 |
| MPFTEFLG | B | |
| MPFTENLN | 10 | |
| MPFTENTY | 0 | |
| MPFTFLG | 5 | |
| MPFTFLG2 | 6 | |
| MPFTGENP | 14 | |
| MPFTIDLN | A | |
| MPFTIWKP | 20 | |
| MPFTNENG | C | |
| MPFTNENS | E | |
| MPFTPREF | B | 80 |
| MPFTRSV | 38 | |
| MPFTRSV1 | 30 | |
| MPFTRSV2 | 36 | |
| MPFTRSV3 | 12 | |
| MPFTRSV4 | 7 | |
| MPFTRSV5 | 1C | |
| MPFTSENP | 18 | |
| MPFTSIZE | 9 | |
| MPFTSPN | 8 | |
| MPFTVRSN | 4 | |
| MPFXACTV | B | 08 |

MQE Heading Information

Common Name: IPL Message Queue Element (MQE).
Macro ID: IHAMQE
DSECT Name: MQE
Owning Component: Initial Program Load (SC1C9)
Eye-Catcher ID: NONE
Storage Attributes: Main Storage: YES
 Virtual Storage: NO
 Auxiliary Storage: NO
 Subpool: 245
 Key: 0
 Data Space: NO
 Residency: MQEs are created in the IPL workspace. IEAIPL99 copies the MQEs to SQA (SP 245, below the 16 MB line) before the IPL workspace is deleted.
Size: 4 + length of WPL + length of WPLFLGS (see IEZWPL)
Created by: IEAIPL35 creates one MQE for each message it is requested to issue.
Pointed to by: MQH1ST - Points to the first MQE on the IPL message queue.
 MQHNTH - Points to the last MQE on the IPL message queue.
Serialization: NONE
Function: During IPL a console is not available. Messages issued during IPL are therefore saved in MQEs, which are queued on to the IP Message Queue. Messages contained in MQEs are issued when the WTO becomes available during NIP.

MQE Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|---------------------------------------|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 144 | MQE | |
| 0 | (0) | ADDRESS | 4 | MQENEXT | Pointer to the next MQE on the queue. |
| 4 | (4) | CHARACTER | 138 | MQEDATA | The WTO parameter list. |
| 142 | (8E) | CHARACTER | 2 | * | Pad for doubleword alignment |
| 144 | (90) | CHARACTER | 0 | * | For double word boundary. |

MQH Heading Information

Common Name: IPL Message Queue Header (MQH). DATE(SP2.2.0,HBB4410) NOGEN;
Macro ID: IHAMQH
DSECT Name: N/A
Owning Component: N/A
Eye-Catcher ID: N/A
 Offset: N/A
 Length: N/A
Storage Attributes: Main Storage: N/A
 Virtual Storage: N/A
 Auxiliary Storage: N/A
 Subpool: N/A
 Key: N/A
 Data Space: N/A
 Residency: N/A
Size: N/A
Created by: IEA IPL35.
Pointed to by: IVTMQHP during IPL.
 NVTMQHP during NIP.
Serialization: None
Function: Header of the IPL message queue.

MQH Map

| Offsets | | | | | |
|---------|-----|------------|-----|------------|------------------------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 16 | MQH | |
| 0 | (0) | ADDRESS | 4 | MQH1ST | Pointer to the first (oldest) MQE. |
| 4 | (4) | ADDRESS | 4 | MQHCOUNT | Number of MQE's on the queue. |
| 8 | (8) | ADDRESS | 4 | MQHNTH | Pointer to the Nth (youngest) MQE. |
| 12 | (C) | ADDRESS | 4 | * | For DWORD boundary. |

MSGS Heading Information

Common Name: Generalized Message Service Parameter List (MSGS)
Macro ID: IEAVM101
DSECT Name: MSGS
Owning Component: COMMUNICATIONS TASK (SC1CK)
Eye-Catcher ID: MSGS
 Offset: 0
 Length: 4
Storage Attributes: Virtual Storage: Caller's Storage AUXILARY STORAGE: Caller's Storage
 Subpool: Caller's Storage
 Key: Caller's Storage
 Data Space: Caller's Storage
 Residency: Caller's Storage
Size: 44 BYTES
Created by: Caller
 DISTRIBUTION= AINTLIB
Pointed to by: Register 1 points to a word which points to the MSGS.
Serialization: None
Function: Provides the interface between the modules that need to issue messages and the Generalized Message Service Module (IEAVM200). This module contains a table of message Ids that the Message Service Module uses to build the requested message.

MSGS Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 44 | MSGS | Generalized Message Service Parameter List |
| 0 | (0) | CHARACTER | 4 | MSGSACRN | Acronym 'MSGS' |
| 4 | (4) | UNSIGNED | 1 | MSGSVRSN | Version Level |
| 5 | (5) | BITSTRING | 1 | MSGSRFLG | Request flags |
| | | 1... | | MSGSBAIM | Build and issue message |
| | | .1.. | | MSGSBAQM | Build and queue message |
| | | ..1. | | MSGSIAMQ | Issue all messages on queue |
| | | ...1 | | MSGSHDCY | Write to hardcopy only |
| | | 1111 | | * | Reserved |
| 6 | (6) | CHARACTER | 2 | * | Reserved |
| 8 | (8) | SIGNED | 4 | MSGSLNUM | CONSOLxx statement line number for sorting the message queue |
| 12 | (C) | UNSIGNED | 4 | MSGSMGSI | Message Id indicator |
| 16 | (10) | CHARACTER | 2 | * | Reserved |
| 18 | (12) | UNSIGNED | 2 | MSGSNMBI | Total number of inserts (includes sub-inserts) |
| 20 | (14) | ADDRESS | 4 | MSGSIPTR | Pointer to inserts |
| 24 | (18) | ADDRESS | 4 | MSGSMQPB | Address of a word containing the pointer to beginning of message queue. Serialization of the queue is up to the caller of this service. |
| 28 | (1C) | ADDRESS | 4 | MSGSMQPE | Address of a word containing the pointer to end of message queue |
| 32 | (20) | UNSIGNED | 4 | MSGSDOMID | DOM Id of msg returned to caller |
| 36 | (24) | CHARACTER | 8 | * | Reserved |

MSGS Constants

| Offsets | | | | | |
|---------|-----|------------|-----|------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 12 | MSGSISRT | Message insert |
| 0 | (0) | UNSIGNED | 2 | MSGSILNT | Length of insert text |
| 2 | (2) | BITSTRING | 1 | MSGSIFLG | Insert flags |
| | | 1... .. | | MSGSICHH | Convert insert to printable hex characters |
| | | .1.. | | MSGSICHD | Convert insert to printable decimal characters |
| | | ..1. | | MSGSISUB | Insert contains sub-insert |
| | | ...1 | | MSGSIZRO | Suppress leading zeros |
| | | 1111 | | * | Reserved |
| 3 | (3) | BITSTRING | 1 | * | Reserved |
| 4 | (4) | ADDRESS | 4 | MSGSITXT | Pointer to text of insert |
| 8 | (8) | UNSIGNED | 1 | MSGSISUP | Number of leading zeros to suppress |
| 9 | (9) | CHARACTER | 1 | MSGSIDEL | Delimiter character |
| 10 | (A) | CHARACTER | 2 | * | Reserved |

MSGS Constants

| Len | Type | Value | Name | Description |
|--|-----------|-------|-----------|-----------------------|
| Comment | | | | |
| The acronym and the version number to be placed in the MSGS Control Block. | | | | |
| End of Comment | | | | |
| 4 | CHARACTER | MSGS | MSGSNNAME | Acronym |
| 1 | DECIMAL | | MSGSS220 | Level JBB2220 |
| 1 | DECIMAL | | MSGSS410 | Level HBB4410 |
| 1 | DECIMAL | | MSGSVERN | Current version level |
| Comment | | | | |

Table of message Ids:

| | | | | |
|----------------|---------|-------|----------|--------------------------|
| End of Comment | | | | |
| 4 | DECIMAL | 0 | MSPREBLT | Id for pre-built message |
| 4 | DECIMAL | 18800 | MS188I00 | Msg IEA188I |
| 4 | DECIMAL | 18901 | MS189I01 | Msg IEA189I version 1 |
| 4 | DECIMAL | 18902 | MS189I02 | Msg IEA189I version 2 |
| 4 | DECIMAL | 19000 | MS190I00 | Msg IEA190I |
| 4 | DECIMAL | 19101 | MS191I01 | Msg IEA191I version 1 |
| 4 | DECIMAL | 19102 | MS191I02 | Msg IEA191I version 2 |
| 4 | DECIMAL | 19200 | MS192I00 | Msg IEA192I |
| 4 | DECIMAL | 19400 | MS194I00 | Msg IEA194I |
| 4 | DECIMAL | 19501 | MS195I01 | Msg IEA195I version 1 |
| 4 | DECIMAL | 19502 | MS195I02 | Msg IEA195I version 2 |
| 4 | DECIMAL | 19503 | MS195I03 | Msg IEA195I version 3 |
| 4 | DECIMAL | 19504 | MS195I04 | Msg IEA195I version 4 |
| 4 | DECIMAL | 19505 | MS195I05 | Msg IEA195I version 5 |
| 4 | DECIMAL | 19506 | MS195I06 | Msg IEA195I version 6 |
| 4 | DECIMAL | 19507 | MS195I07 | Msg IEA195I version 7 |
| 4 | DECIMAL | 19508 | MS195I08 | Msg IEA195I version 8 |
| 4 | DECIMAL | 19601 | MS196I01 | Msg IEA196I version 1 |
| 4 | DECIMAL | 19602 | MS196I02 | Msg IEA196I version 2 |
| 4 | DECIMAL | 19603 | MS196I03 | Msg IEA196I version 3 |
| 4 | DECIMAL | 19604 | MS196I04 | Msg IEA196I version 4 |
| 4 | DECIMAL | 19605 | MS196I05 | Msg IEA196I version 5 |
| 4 | DECIMAL | 19606 | MS196I06 | Msg IEA196I version 6 |
| 4 | DECIMAL | 19608 | MS196I08 | Msg IEA196I version 8 |
| 4 | DECIMAL | 19609 | MS196I09 | Msg IEA196I version 9 |
| 4 | DECIMAL | 19610 | MS196I10 | Msg IEA196I version 10 |
| 4 | DECIMAL | 19611 | MS196I11 | Msg IEA196I version 11 |
| 4 | DECIMAL | 19612 | MS196I12 | Msg IEA196I version 12 |
| 4 | DECIMAL | 19613 | MS196I13 | Msg IEA196I version 13 |
| 4 | DECIMAL | 19614 | MS196I14 | Msg IEA196I version 14 |

| Len | Type | Value | Name | Description |
|-----|---------|-------|----------|------------------------|
| 4 | DECIMAL | 19615 | MS196I15 | Msg IEA196I version 15 |
| 4 | DECIMAL | 19616 | MS196I16 | Msg IEA196I version 16 |
| 4 | DECIMAL | 19617 | MS196I17 | Msg IEA196I version 17 |
| 4 | DECIMAL | 19618 | MS196I18 | Msg IEA196I version 18 |
| 4 | DECIMAL | 19619 | MS196I19 | Msg IEA196I version 19 |
| 4 | DECIMAL | 50400 | MS504I00 | Msg IEA504I |
| 4 | DECIMAL | 18000 | ME180I00 | Msg IEE180I |
| 4 | DECIMAL | 18100 | ME181I00 | Msg IEE181I |
| 4 | DECIMAL | 18200 | ME182I00 | Msg IEE182I |
| 4 | DECIMAL | 25400 | MS254I00 | Msg IEA254I |
| 4 | DECIMAL | 26001 | ME260I01 | Msg IEE260I version 1 |
| 4 | DECIMAL | 26002 | ME260I02 | Msg IEE260I version 2 |
| 4 | DECIMAL | 26003 | ME260I03 | Msg IEE260I version 3 |
| 4 | DECIMAL | 26004 | ME260I04 | Msg IEE260I version 4 |
| 4 | DECIMAL | 26005 | ME260I05 | Msg IEE260I version 5 |

Comment

SMCS Console Messages

End of Comment

| | | | | |
|---|---------|-------|----------|--------------------|
| 4 | DECIMAL | 4901 | SN049I01 | Msg IEE049I vers 1 |
| 4 | DECIMAL | 4902 | SN049I02 | Msg IEE049I vers 2 |
| 4 | DECIMAL | 5000 | SN050I00 | Msg IEE050I |
| 4 | DECIMAL | 5100 | SN051I00 | Msg IEE051I |
| 4 | DECIMAL | 5201 | SN052I01 | Msg IEE052I vers 1 |
| 4 | DECIMAL | 5202 | SN052I02 | Msg IEE052I vers 2 |
| 4 | DECIMAL | 5203 | SN052I03 | Msg IEE052I vers 3 |
| 4 | DECIMAL | 5301 | SN053I01 | Msg IEE053I vers 1 |
| 4 | DECIMAL | 5302 | SN053I02 | Msg IEE053I vers 2 |
| 4 | DECIMAL | 5303 | SN053I03 | Msg IEE053I vers 3 |
| 4 | DECIMAL | 5401 | SN054I01 | Msg IEE054I vers 1 |
| 4 | DECIMAL | 5402 | SN054I02 | Msg IEE054I vers 2 |
| 4 | DECIMAL | 5501 | SN055I01 | Msg IEE055I vers 1 |
| 4 | DECIMAL | 5502 | SN055I02 | Msg IEE055I vers 2 |
| 4 | DECIMAL | 5700 | SN057I00 | Msg IEE057I |
| 4 | DECIMAL | 5800 | SN058I00 | Msg IEE058I |
| 4 | DECIMAL | 6600 | SN066I00 | Msg IEE066I |
| 4 | DECIMAL | 6700 | SN067I00 | Msg IEE067I |
| 4 | DECIMAL | 81900 | SN819E00 | Msg IEE819E |
| 4 | DECIMAL | 82300 | SN823E00 | Msg IEE823E |

MSGS Cross Reference

| Name | Hex Offset | Hex Value |
|-----------|------------|-----------|
| MSGSG | 0 | |
| MSGSACRN | 0 | |
| MSGSBAlM | 5 | 80 |
| MSGSBAlQM | 5 | 40 |
| MSGSDOMID | 20 | |
| MSGSHDCY | 5 | 10 |
| MSGSIAMQ | 5 | 20 |
| MSGSICHd | 2 | 40 |
| MSGSICHH | 2 | 80 |
| MSGSIDEL | 9 | |
| MSGSIFLG | 2 | |
| MSGSILNT | 0 | |
| MSGSIPTR | 14 | |
| MSGSISRT | 0 | |
| MSGSISUB | 2 | 20 |
| MSGSISUP | 8 | |
| MSGSITXT | 4 | |
| MSGSIZRO | 2 | 10 |
| MSGSLNUM | 8 | |

| Name | Hex Offset | Hex Value |
|----------|------------|-----------|
| MSGSMQPB | 18 | |
| MSGSMQPE | 1C | |
| MSGSMSGI | C | |
| MSGSNMBI | 12 | |
| MSGSRFLG | 5 | |
| MSGSVRSN | 4 | |

MSRASDCA Heading Information

Common Name: MASTER SCHEDULER COMMAND RAS DATA COMMUNICATIONS AREA (MSRASDCA)
Macro ID: IEEZB808
DSECT Name: MSRASDCA
Owning Component: SYSTEM COMMAND (SC1B8)
Eye-Catcher ID: MRAS
 Offset: 0
 Length: 4
Storage Attributes: Subpool: 230
 Key: 0
Size: 116 BYTES
Created by: IEECB860 AND IEE0003D
Pointed to by: REGISTER 3, ON RETURN FROM IEECB860
 FIELD XAMSRAS IN THE XSA
Serialization: NONE
Function: MAPS THE DATA AREA USED TO COMMUNICATE SDWA DATA BETWEEN:
 . MAINLINE SYSTEM COMMAND PROCESSORS AND THE MASTER SCHEDULER COMMAND PROCESSOR ESTAE RECOVERY MODULE - IEECB860
 . MODULES IN THE SVC 34 LOAD(IGC0003D) AND THE SVC 34 ESTAE MODULE - IEE5103D

MSRASDCA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | MSRASDCA | - MASTER SCHEDULER RAS DATA COMMUNICATIONS AREA |
| 0 | (0) | CHARACTER | 4 | MSRCBID | CONTROL BLOCK ID - MRAS |
| 4 | (4) | CHARACTER | 1 | MSRVERSN | VERSION LEVEL |
| 4 | (4) | X'1' | 0 | MSRSP21 | "1" VERSION LEVEL OS/VS2 HBB2102 |
| 4 | (4) | X'2' | 0 | MSRSP212 | "2" VERSION LEVEL OS/VS2 JBB2125 |
| 4 | (4) | X'2' | 0 | MSRVERID | "MSRSP212" VERSION LEVEL - UPDATED FOR SIZE OR INCOMPATIBLE CHANGE |
| 5 | (5) | BITSTRING | 1 | MSRFLGS1 | FLAGS BYTE |
| | | 1... | | MSRNOMSG | "X'80" DO NOT ISSUE MESSAGE |
| 6 | (6) | CHARACTER | 2 | MSRES1 | RESERVED |
| 8 | (8) | CHARACTER | 8 | MSRLNAME | FAILING LOAD MODULE NAME |
| 16 | (10) | CHARACTER | 8 | MSRCNAME | FAILING CSECT NAME |
| 21 | (15) | CHARACTER | 1 | MSREXITF | IF SET TO 'X' CSECT IS NOT IN CONTROL |
| 21 | (15) | X'E7' | 0 | MSREXITI | "C'X" USED TO INDICATE CSECT NOT IN CONTROL |
| 24 | (18) | CHARACTER | 5 | MSRCMPID | COMPONENT ID OF FAILING MODULE |
| 29 | (1D) | CHARACTER | 23 | MSRCMND | FAILING COMMAND |
| 52 | (34) | CHARACTER | 16 | MSRMODLV | LEVEL OF FAILING MODULE |
| 68 | (44) | CHARACTER | 4 | MSREASNC | REASON CODE OR RETURN CODE FOR ABEND |
| 72 | (48) | BITSTRING | 2 | MSRDSIZE | LENGTH OF VARIABLE DATA AREA |
| 74 | (4A) | BITSTRING | 2 | MSRDLEN | LENGTH OF VARIABLE DATA |
| 76 | (4C) | SIGNED | 2 | MSRDPVA (0) | FLAGS DESCRIBING MSRVRA, TO BE MOVED TO SDWAVRA |
| 76 | (4C) | BITSTRING | 1 | MSRDPVA1 | BYTE ONE OF SDWADPVA |
| | | 1... | | MSRHEX | "X'80" MSRVRA DATA TO BE PRINTED BY EREP IN HEX |
| | | .1.. | | MSREBC | "X'40" MSRVRA DATA TO BE PRINTED BY EREP IN EBCDIC |
| | | ..1. | | MSRVRAM | "X'20" MSRVRA DATA IS IN THE FORMAT MAPPED BY THE IHAVRA MACRO |
| 77 | (4D) | BITSTRING | 1 | MSRDPVA2 | RESERVED |

MSRASDCA Cross Reference

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|--|
| Dec | Hex | | | | |
| 78 | (4E) | SIGNED | 2 | MSRES2 | RESERVED |
| 80 | (50) | SIGNED | 4 | MSRES3 | RESERVED |
| 84 | (54) | ADDRESS | 4 | MSRVRAD | ADDRESS OF MSRVRA |
| 88 | (58) | ADDRESS | 4 | MSRRTYAD | ADDRESS OF RETRY ROUTINE WHERE AN SDWA IS AVAILABLE |
| 92 | (5C) | ADDRESS | 4 | MSRRTYNS | ADDRESS OF RETRY ROUTINE IN THE EVENT OF NO SDWA |
| 96 | (60) | ADDRESS | 4 | MSRCLPAD | ADDRESS OF CLEANUP ROUTINE |
| 100 | (64) | ADDRESS | 4 | MSRRUBAD | ADDRESS OF REGISTER UPDATE BLOCK - MUST BE PROVIDED IF RETRY SPECIFIED |
| 104 | (68) | ADDRESS | 4 | MSRDMPEX | ADDRESS OF DUMP EXIT |
| 108 | (6C) | ADDRESS | 4 | MSRPARMP | POINTER TO IEECB860'S PARM AREA |
| 112 | (70) | BITSTRING | 2 | MSRPARML | LENGTH OF IEECB860'S PARM AREA |
| 114 | (72) | CHARACTER | 2 | MSRES4 | RESERVED |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|------------|--------------------------------------|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | MSRVADS | VARIABLE DATA AREA DSECT |
| 0 | (0) | CHARACTER | 255 | MSRVRA | VARIABLE DATA TO BE MOVED TO SDWAVRA |

MSRASDCA Cross Reference

| Name | Hex Offset | Hex Value |
|----------|------------|-----------|
| MSRASDCA | 0 | |
| MSRCBID | 0 | |
| MSRCLPAD | 60 | |
| MSRCMND | 1D | |
| MSRCMPID | 18 | |
| MSRCNAME | 10 | |
| MSRDLEN | 4A | |
| MSRDMPEX | 68 | |
| MSRDPVA | 4C | |
| MSRDPVA1 | 4C | |
| MSRDPVA2 | 4D | |
| MSRDSIZE | 48 | |
| MSREASNC | 44 | |
| MSREBC | 4C | 40 |
| MSRES1 | 6 | |
| MSRES2 | 4E | |
| MSRES3 | 50 | |
| MSRES4 | 72 | |
| MSREXITF | 15 | |
| MSREXITI | 15 | E7 |
| MSRFLGS1 | 5 | |
| MSRHEX | 4C | 80 |
| MSRLNAME | 8 | |
| MSRMODLV | 34 | |
| MSRNOMSG | 5 | 80 |
| MSRPARML | 70 | |
| MSRPARMP | 6C | |
| MSRRTYAD | 58 | |
| MSRRTYNS | 5C | |
| MSRRUBAD | 64 | |
| MSRSP21 | 4 | 1 |
| MSRSP212 | 4 | 2 |
| MSRVERID | 4 | 2 |
| MSRVERSN | 4 | |
| MSRVRA | 0 | |
| MSRVRAD | 54 | |
| MSRVADS | 0 | |
| MSRVRAM | 4C | 20 |

MTB Programming Interface information

Programming Interface information

MTB

End of Programming Interface information

MTB Heading Information

Common Name: Message Text Block Mapping Macro
Macro ID: CNLMMTB
DSECT Name: MTB MTBMSG
Owning Component: MVS MESSAGE SERVICE (SCMMS)
Eye-Catcher ID: 'MTB '
Offset: 0
Length: 4
Storage Attributes: Subpool: of caller
Key: of caller
Residency: of caller
Size: Variable based on size of parameterized form of the message being processed. Size of this MTB is in field MTBSIZE.
Created by: Callers of Message Parameterize
Callers of Message Translate
Pointed to by: MIOINPTP field of the MIO area
MIOBUFFP field of the MIO area
Serialization: None required.
Function: Used to map the Message Text Block. When input to the MVS Message Service it contains USA English message. Output MTB may contain multiple translated messages.

MTB Map

| Offsets | | | | | |
|---------|------|------------|-----|--------------|-----------------------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | MTB | Message text block |
| 0 | (0) | CHARACTER | 4 | MTBACRN | Acronym "MTB " |
| 4 | (4) | BITSTRING | 1 | MTBVRSN | MTB version |
| 5 | (5) | CHARACTER | 3 | | Reserved |
| 8 | (8) | SIGNED | 4 | MTBSIZE | Size of MTB |
| 12 | (C) | CHARACTER | 3 | MTBLNGCD | Output language code |
| 15 | (F) | BITSTRING | 1 | MTBFLAGS | Message flags |
| | | 1... | | MTBDBCS | "X'80" DBCS indicator |
| 16 | (10) | CHARACTER | 4 | | Reserved |
| 20 | (14) | SIGNED | 4 | MTBCOUNT | Count of message records |
| 24 | (18) | SIGNED | 4 | MTBOFFST | Offset to first entry in MTBV DAT |
| 28 | (1C) | CHARACTER | 8 | | Reserved |
| 36 | (24) | SIGNED | 4 | MTBV DATL | Length of variable data area |
| 40 | (28) | CHARACTER | 1 | MTBV DAT (0) | Variable data area |

| Offsets | | | | | |
|---------|-----|------------|-----|-------------|-------------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | MTBMSG | Message record block |
| 0 | (0) | SIGNED | 2 | MTBTEXTL | Length of message entry |
| 2 | (2) | CHARACTER | 1 | MTBTEXT (0) | Message text |

MTB Cross Reference

| Name | Hex Offset | Hex Value |
|-------------|-----------------------|----------------------|
| MTB | 0 | |
| MTBACRN | 0 | |
| MTBCOUNT | 14 | |
| MTBDBCS | F | 80 |
| MTBFLAGS | F | |
| MTBLNGCD | C | |
| MTBMSG | 0 | |
| MTBOFFST | 18 | |
| MTBSIZE | 8 | |
| MTBTEXT | 2 | |
| MTBTEXTL | 0 | |
| MTBV DAT | 28 | |
| MTBV DATL | 24 | |
| MTBVRSN | 4 | |

MTT Heading Information

Common Name: Master Trace Table
Macro ID: IEEZB806
DSECT Name: MTTABLE
Owning Component: System Command (SC1B8)
Offset: Offset 0 and length 4
Subpool and Key: Subpool 229 and key 0
Size: Header 128 bytes, entry 10 bytes plus data length; total size varies from 24K to 99K bytes.
Created by: IEEMB809
Pointed to by: BAMTTBL field of the BASEA data area
Serialization: CMS and local locks
Function: Contains the most recently issued operator messages.

MTT Map

| Offsets | | | | | |
|---------|------|------------|-----|------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | * | MTTABLE | ALIGN MASTER TRACE TABLE MAPPING TO A DOUBLE WORD BOUNDARY |
| 0 | (0) | CHARACTER | 128 | MTTHDRA | HEADER AREA OF TABLE |
| 0 | (0) | CHARACTER | 4 | MTTID | MASTER TRACE TABLE IDENT. |
| 4 | (4) | ADDRESS | 4 | MTTCURPT | ADDR OF CURRENT ENTRY |
| 8 | (8) | ADDRESS | 4 | MTTENTPT | ADDR OF STORAGE AREA FOR TABLE ENTRIES |
| 12 | (C) | ADDRESS | 4 | MTTENDPT | ADDR OF FIRST BYTE BEYOND END OF TABLE |
| 16 | (10) | UNSIGNED | 4 | MTTSIZE | SUBPOOL AND LENGTH FOR FREEMAIN |
| 16 | (10) | UNSIGNED | 1 | MTTSP | SUBPOOL OF TABLE |
| 17 | (11) | UNSIGNED | 3 | MTTLLEN | LENGTH OF TABLE |
| 20 | (14) | CHARACTER | 12 | MTTWRPTM | TIME TABLE INITIALIZED OR TIME LAST WRAPPED IN FORM IT/WTTH:MM:SS.S, PRODUCED VIA THE USE OF THE CONTIME MACRO |
| 32 | (20) | ADDRESS | 4 | MTTWRPPT | ADDR OF LAST ENTRY STORED BEFORE TABLE WRAP |
| 36 | (24) | BITSTRING | 4 | MTTPFLAG | MASTER TRACE FACILITY PROCESSING INTERNAL TRACING FLAGS USED BY IEEMB808 AND IEEMB809 |
| 40 | (28) | SIGNED | 4 | MTTDAREA | DATA AREA LENGTH |
| 44 | (2C) | CHARACTER | 4 | MTTRSVD1 | RESERVED WORD TO ASSURE DWORD BDY FOR MTTWK808 |
| 48 | (30) | CHARACTER | 64 | MTTWK808 | WORK AREA FOR IEEMB808 |
| 112 | (70) | CHARACTER | 16 | MTTRSVD2 | RESERVED WORDS |
| 128 | (80) | CHARACTER | * | MTTENTA | STORAGE AREA FOR TABLE ENTRIES |

| Offsets | | | | | |
|---------|-----|------------|-----|------------|-------------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | * | MTENTRY | ALIGNS TO BYTE BNDRY |
| 0 | (0) | CHARACTER | 10 | MTENTHDR | TABLE ENTRY HEADER |
| 0 | (0) | BITSTRING | 2 | MTENTFLG | FLAGS SET BY CALLER |
| 2 | (2) | BITSTRING | 2 | MTENTTAG | IDENTIFIES CALLER |
| 4 | (4) | BITSTRING | 4 | MTENTIMM | CALLERS IMMEDIATE DATA |
| 8 | (8) | BITSTRING | 2 | MTENTLEN | LENGTH OF CALLER'S DATA |
| 10 | (A) | CHARACTER | * | MTENTDAT | DATA PASSED BY CALLER |

MTT Cross Reference

MTT Cross Reference

| Name | Hex Offset | Hex Value |
|----------|---------------|--------------|
| MTENTDAT | A | |
| MTENTFLG | 0 | |
| MTENTHDR | 0 | |
| MTENTIMM | 4 | |
| MTENTLEN | 8 | |
| MTENTRY | 0 | |
| MTENTTAG | 2 | |
| MTTABLE | 0 | |
| MTTCURPT | 4 | |
| MTTDAREA | 28 | |
| MTTENDPT | C | |
| MTTENTA | 80 | |
| MTTENTPT | 8 | |
| MTTHDRA | 0 | |
| MTTID | 0 | |
| MTTLEN | 11 | |
| MTTPFLAG | 24 | |
| MTTRSVD1 | 2C | |
| MTTRSVD2 | 70 | |
| MTTSIZE | 10 | |
| MTTSP | 10 | |
| MTTWK808 | 30 | |
| MTTWRPPT | 20 | |
| MTTWRPTM | 14 | |

NEL Programming Interface information

Programming Interface information

NEL

ONLY the following field is part of the programming interface information:

- NELXA2

End of Programming Interface information

NEL Heading Information

Common Name: Interpreter Entrance List
Macro ID: IEFNEL
DSECT Name: NEL (defined by invoker), NELEXITS and NELEXENT (when exits are included)
Owning Component: Converter / Interpreter (SC1B9)
Eye-Catcher ID: None
Storage Attributes: Subpool: 10, 252, 253
 Key: Determined by caller
 Residency: Below
Size: 40 (decimal) for Interpreter,
 66 (decimal) for Converter,
 when exits are included then
 additional 8 + 8*number of exits
 (plus 6 for double-word alignment
 for Converter)
Created by: Invoker of Converter or Interpreter
Pointed to by: - Register 1 on entry to the Converter
 - Register 1 on entry to the Interpreter
 - NELEXLST points to NELEXITS when exits are included
Serialization: None
Function: This macro provides a symbolic mapping of the parameter lists
 required when invoking the Converter or Interpreter subroutines.
 Each list and its exit sublist must be constructed in dynamically
 allocated storage prior to calling the Converter or Interpreter.

NEL Map

| Offsets | | | | | |
|---------|------|------------|-----|-------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | | |
| 0 | (0) | DBL WORD | 8 | NELLIST (0) | |
| 0 | (0) | ADDRESS | 4 | NELQMPA | PTR TO QMPA PROVIDING ACCESS TO CALLER'S SWA |
| 4 | (4) | ADDRESS | 4 | NELEXLST | PTR TO C/I'S LIST OF SPECIAL EXITS |
| 8 | (8) | ADDRESS | 4 | NELCOMID | PTR TO CONSOLE IDENTIFIER |
| 12 | (C) | ADDRESS | 4 | NELTXTCB | PTR TO OPEN ACB FOR INTERNAL TEXT DATA SET |
| 16 | (10) | ADDRESS | 4 | NELMSGCB | PTR TO OPEN ACB FOR MESSAGE DATA SET |
| 20 | (14) | ADDRESS | 4 | NELJMR | PTR TO JOB MANAGEMENT RECORD |
| Comment | | | | | |

NEL OPTION SWITCHES COMMON TO CONVERTER AND INTERPRETER

| | | | | | |
|----------------|------|-----------|---|----------|---|
| End of Comment | | | | | |
| 24 | (18) | BITSTRING | 1 | NELOPSWT | OPTION SWITCHES |
| | | 1... | | NELSMF | "X'80" IF ZERO, INDICATES A STARTED TASK |
| | | .1.. | | NELTSOP | "X'40" TERM=TS HAS BEEN SPECIFIED AND OVERRIDES |
| | | ..1. | | NELRECVY | ALL OTHER PARAMETERS ON THE DD STATEMENT |
| | | ...1 | | NELCNDGM | "X'20" PROCESSING IS IN RECOVERY MODE AND |
| | | 1... | | NELNEW | MESSAGES ARE TO BE SURPRESSED |
| | |1.. | | NELTERM | "X'10" USE CONDITIONAL GETMAINS |
| | | | | NELSYSNP | "X'08" NEW FORMAT PARAMETER LIST |
| 25 | (19) | ADDRESS | 3 | | "X'04" TERMINATE CONVERTER ENVIRONMENT |
| | | | | | POINTER TO NAME OF THE SUBSYSTEM THAT SELECTED |
| | | | | | THIS JOB |

| Offsets | | | | | |
|------------------------------|------|------------|-----|--------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| | | | | | Comment |
| CONVERTER POINTERS | | | | | |
| | | | | | End of Comment |
| 28 | (1C) | ADDRESS | 4 | NELJCLCB | PTR TO OPEN ACB FOR SPOOLED JCL DATA SET |
| 32 | (20) | ADDRESS | 4 | NELPROCB | PTR TO OPEN DCB FOR PROCEDURE LIBRARY |
| 36 | (24) | ADDRESS | 4 | NELSTMCB | PTR TO OPEN ACB FOR STATEMENT IMAGE DATA SET |
| | | | | | Comment |
| CONVERTER PARM FIELD MAPPING | | | | | |
| | | | | | End of Comment |
| 40 | (28) | CHARACTER | 1 | NELPARMO | PARAMETER OPTIONS |
| | |1 | | NELPGMN | "X'01" PROGRAMMER NAME REQUIRED |
| | |1. | | NELACCT | "X'02" ACCOUNT NUMBER REQUIRED |
| | |1.. | | NELXA2 | "X'04" USER SWA ABOVE INDICATOR |
| 41 | (29) | | 2 | NELJPRTY | DEFAULT JOB PRIORITY |
| 43 | (2B) | | 6 | NELTIME | DEFAULT FOR JOB TIME LIMIT |
| 49 | (31) | | 3 | NELREG | DEFAULT REGION SIZE |
| 52 | (34) | | 1 | NELCOMDS | COMMAND DISPOSITION 0 - EXECUTE COMMAND 1 - DISPLAY AND EXECUTE COMMAND 2 - DISPLAY AND REQUEST DISPOSITION 3 - IGNORE COMMAND |
| 53 | (35) | | 1 | NELLABEL | LABEL PROCESSING 0 - BLP WILL BE TREATED AS NL 1 - BLP WILL BE TREATED AS BYPASS LABEL |
| 54 | (36) | CHARACTER | 4 | NELAUTH | MCS COMMAND AUTHORITY |
| 58 | (3A) | CHARACTER | 2 | NELMSGCL (0) | MESSAGE LEVEL DEFAULTS |
| 58 | (3A) | CHARACTER | 1 | NELMSGCL1 | JCL MSGLEVEL DEFAULT |
| 59 | (3B) | CHARACTER | 1 | NELMSGCL2 | ALLOCATION MSGLEVEL DEFAULT |
| 60 | (3C) | CHARACTER | 1 | NELMSGCL | DEFAULT SYSTEM OUTPUT CLASS(MSGCLASS) |
| 61 | (3D) | CHARACTER | 1 | | RESERVED |
| 62 | (3E) | BITSTRING | 4 | NELENVIR | ADDRESS OF EXISTING CONVERTER ENVIRONMENT |
| 62 | (3E) | X'42' | 0 | NELCSIZE | *** USED TO DETERMINE SIZE OF CONVERTER DATA |
| | | | | | Comment |
| INTERPRETER POINTERS | | | | | |
| | | | | | End of Comment |
| 28 | (1C) | ADDRESS | 4 | NELJCT | PTR TO JCT IN SWA |
| | | | | | Comment |
| INTERPRETER OPTION SWITCH | | | | | |
| | | | | | End of Comment |
| 32 | (20) | BITSTRING | 1 | NELOPSW2 | OPTION SWITCHES - BYTE 2 |
| | | 1... | | NELADSPC | "X'80" FAIL JOB IF ADDRSPC=REAL CODED BY UNAUTHORIZED USER(E.G. LOGON PROC) |
| | | ..1.. | | NELSWBSP | "X'40" SWB SUPPORT IS TO BE PROVIDED |
| | | ..1. | | NELXA1 | "X'20" CALLER SWA ABOVE INDICATOR |
| | | ...1 | | NELSISO | "X'10" SYSIN/SYSOUT SWA BELOW INDICATOR |
| | | 1... | | NELWTOSP | "X'08" SUPPRESS WTO MESSAGES |
| | |1.. | | NELSMSBY | "X'04" BYPASS DFSMS IDAX PROCESSING |
| 33 | (21) | CHARACTER | 3 | | RESERVED |
| 36 | (24) | ADDRESS | 4 | NELJICA | PTR TO JES/INTERPRETER COMMUNICATION AREA |
| 36 | (24) | X'28' | 0 | NELISIZE | *** USED TO DETERMINE SIZE OF INTERPRETER DATA |

NEL Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|--|-----------|------------|-----|--------------|--|
| Dec | Hex | | | | |
| Comment | | | | | |
| NEL EXIT LIST MAPPING | | | | | |
| End of Comment | | | | | |
| 66 | (42) | X'48' | 0 | NELEXTLN | "72" - SYMBOLIC LENGTH OF EXIT LIST |
| 72 | (48) | DBL WORD | 8 | NELEXITS (0) | |
| 72 | (48) | CHARACTER | 8 | NELEXHDR (0) | EXIT LIST HEADER RECORD |
| 72 | (48) | SIGNED | 2 | NELEXLEN | LIST LENGTH |
| 74 | (4A) | SIGNED | 2 | NELXRTCD | INTERPRETER RETURN CODE |
| 76 | (4C) | CHARACTER | 4 | | |
| 80 | (50) | CHARACTER | 8 | IAMEXIT (0) | |
| 80 | (50) | BITSTRING | 1 | IAMEXLK | LINKAGE DEFINITION |
| 81 | (51) | BITSTRING | 1 | IAMEXID | EXIT IDENTIFICATION |
| 82 | (52) | CHARACTER | 6 | IAMEXEP | ENTRY POINT |
| 88 | (58) | CHARACTER | 8 | FAMEXIT (0) | |
| 88 | (58) | BITSTRING | 1 | FAMEXLK | LINKAGE DEFINITION |
| 89 | (59) | BITSTRING | 1 | FAMEXID | EXIT IDENTIFICATION |
| 90 | (5A) | CHARACTER | 6 | FAMEXEP | ENTRY POINT |
| 96 | (60) | CHARACTER | 8 | QEPEXIT (0) | |
| 96 | (60) | BITSTRING | 1 | QEPEXLK | LINKAGE DEFINITION |
| 97 | (61) | BITSTRING | 1 | QEPEXID | EXIT IDENTIFICATION |
| 98 | (62) | CHARACTER | 6 | QEPEXEP | ENTRY POINT |
| 104 | (68) | CHARACTER | 8 | SMFEXIT (0) | |
| 104 | (68) | BITSTRING | 1 | SMFEXLK | LINKAGE DEFINITION |
| 105 | (69) | BITSTRING | 1 | SMFEXID | EXIT IDENTIFICATION |
| 106 | (6A) | CHARACTER | 6 | SMFEXEP | ENTRY POINT |
| 112 | (70) | CHARACTER | 8 | TXTEXIT (0) | |
| 112 | (70) | BITSTRING | 1 | TXTEXLK | LINKAGE DEFINITION |
| 113 | (71) | BITSTRING | 1 | TXTEXID | EXIT IDENTIFICATION |
| 114 | (72) | CHARACTER | 6 | TXTEXEP | ENTRY POINT |
| 120 | (78) | CHARACTER | 8 | RTNEXIT (0) | |
| 120 | (78) | BITSTRING | 1 | RTNEXLK | LINKAGE DEFINITION |
| 121 | (79) | BITSTRING | 1 | RTNEXID | EXIT IDENTIFICATION |
| 122 | (7A) | CHARACTER | 6 | RTNEXEP | ENTRY POINT |
| 128 | (80) | CHARACTER | 8 | QLPEXIT (0) | |
| 128 | (80) | BITSTRING | 1 | QLPEXLK | LINKAGE DEFINITION |
| 129 | (81) | BITSTRING | 1 | QLPEXID | EXIT IDENTIFICATION |
| 130 | (82) | CHARACTER | 6 | QLPEXEP | ENTRY POINT |
| 136 | (88) | CHARACTER | 8 | JDVEXIT (0) | |
| 136 | (88) | BITSTRING | 1 | JDVEXLK | LINKAGE DEFINITION |
| 137 | (89) | BITSTRING | 1 | JDVEXID | EXIT IDENTIFICATION |
| 138 | (8A) | CHARACTER | 6 | JDVEXEP | ENTRY POINT |
| Comment | | | | | |
| GENERAL EXIT LIST ENTRY MAPPING | | | | | |
| End of Comment | | | | | |
| 144 | (90) | CHARACTER | 1 | NELEXENT (0) | ORIGIN ZERO |
| 144 | (90) | CHARACTER | 1 | NELEXLK | LINKAGE IDENTIFICATION |
| 145 | (91) | CHARACTER | 1 | NELEXID | EXIT IDENTIFICATION |
| 146 | (92) | CHARACTER | 6 | NELEXEP | EXIT ENTRY POINT |
| 146 | (92) | X'94' | 0 | NELEXEPA | "NELEXEP+2" DISPL OF ADDR SPECIFIED |
| Comment | | | | | |
| CONSTANTS USED IN EXIT LIST GENERATION | | | | | |
| LINKAGE ID | | | | | |
| End of Comment | | | | | |
| | ..1. | | | NELEXAD4 | "X'20" ENTRY POINT SPECIFIED AS 4-BYTE ADDR |
| | .1.. | | | NELEXADD | "X'40" ENTRY POINT SPECIFIED AS 3-BYTE ADDRESS |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|----------------|-----|------------|-----|------------|---|
| Dec | Hex | | | | |
| | | 1... | | NELEXNAM | "X'80" ENTRY POINT SPECIFIED AS 6-BYTE MODULE NAME |
| | | 11.. | | NELEXVCN | "X'C0" ENTRY POINT SPECIFIED AS V-CON AT EXIT POINT |
| | | | | NELEXNOP | "X'00" EXIT ENTRY IS TO BE IGNORED * * |
| Comment | | | | | |
| EXIT ID | | | | | |
| End of Comment | | | | | |
| | | .1.. | | NELIAMEX | "X'40" SPECIAL INPUT ACCESS METHOD EXIT ID |
| | | ..11 | | NELJDVEX | "X'30" SPECIAL DATA JDVT NAME POINTER ID |
| | | ..1. | | NELRTNEX | "X'20" SPECIAL RETURN EXIT ID |
| | | ...1 | | NELFAMEX | "X'10" SPECIAL FIND ACCESS METHOD EXIT ID |
| | | 1... | | NELQEPEX | "X'08" SPECIAL QUEUE MANAGER ENTRY POINT ID |
| | | 1... | | NELTXTEX | "X'80" POST SCAN TEXT EXIT ID |
| | |111 | | NELSMFEX | "X'07" SYSTEM MANAGEMENT FACILITIES EXIT ID |
| | |1.. | | NELQLPEX | "X'04" SPECIAL QUEUE MANAGER FOR LOCATE MODE |
| | | | | | ENTRY POINT ID |
| | | 1..1 | | NELUJVEX | "X'09" IEFUJV with Subsystem Environment Information ID |

NEL Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------|------------|-----------|-----------|------------|-----------|
| FAMEXEP | 5A | | NELJDVEX | 92 | 30 |
| FAMEXID | 59 | | NELJICA | 24 | |
| FAMEXIT | 58 | | NELJMR | 14 | |
| FAMEXLK | 58 | | NELJPRTY | 29 | |
| IAMEXEP | 52 | | NELLABEL | 35 | |
| IAMEXID | 51 | | NELLIST | 0 | |
| IAMEXIT | 50 | | NELMSGCB | 10 | |
| IAMEXLK | 50 | | NELMSGCL | 3C | |
| JDVEXEP | 8A | | NELMSGSL | 3A | |
| JDVEXID | 89 | | NELMSGSL1 | 3A | |
| JDVEXIT | 88 | | NELMSGSL2 | 3B | |
| JDVEXLK | 88 | | NELNEW | 18 | 8 |
| NELACCT | 28 | 2 | NELOPSWT | 18 | |
| NELADSPC | 20 | 80 | NELOPSW2 | 20 | |
| NELAUTH | 36 | | NELPARMO | 28 | |
| NELCNDGM | 18 | 10 | NELPGMN | 28 | 1 |
| NELCOMDS | 34 | | NELPROCB | 20 | |
| NELCOMID | 8 | | NELQEPEX | 92 | 8 |
| NELCSIZE | 3E | 42 | NELQLPEX | 92 | 4 |
| NELENVIR | 3E | | NELQMPA | 0 | |
| NELEXADD | 92 | 40 | NELRECVY | 18 | 20 |
| NELEXAD4 | 92 | 20 | NELREG | 31 | |
| NELEXENT | 90 | | NELRTNEX | 92 | 20 |
| NELEXEP | 92 | | NELSISO | 20 | 10 |
| NELEXEPA | 92 | 94 | NELSMF | 18 | 80 |
| NELEXHDR | 48 | | NELSMFEX | 92 | 7 |
| NELEXID | 91 | | NELSMSBY | 20 | 4 |
| NELEXITS | 48 | | NELSTMCB | 24 | |
| NELEXLEN | 48 | | NELSWBSP | 20 | 40 |
| NELEXLK | 90 | | NELSYSNP | 19 | |
| NELEXLST | 4 | | NELTERM | 18 | 4 |
| NELEXNAM | 92 | 80 | NELTIME | 2B | |
| NELEXNOP | 92 | 0 | NELTSOP | 18 | 40 |
| NELEXTLN | 42 | 48 | NELTXTCB | C | |
| NELEXVCN | 92 | C0 | NELTXTEX | 92 | 80 |
| NELFAMEX | 92 | 10 | NELUJVEX | 92 | 9 |
| NELIAMEX | 92 | 40 | NELWTOSP | 20 | 8 |
| NELISIZE | 24 | 28 | NELXA1 | 20 | 20 |
| NELJCLCB | 1C | | NELXA2 | 28 | 4 |
| NELJCT | 1C | | NELXRTCD | 4A | |

NEL Cross Reference

| Name | Hex Offset | Hex Value |
|----------|---------------|--------------|
| QEPEXEP | 62 | |
| QEPEXID | 61 | |
| QEPEXIT | 60 | |
| QEPEXLK | 60 | |
| QLPEXEP | 82 | |
| QLPEXID | 81 | |
| QLPEXIT | 80 | |
| QLPEXLK | 80 | |
| RTNEXEP | 7A | |
| RTNEXID | 79 | |
| RTNEXIT | 78 | |
| RTNEXLK | 78 | |
| SMFEXEP | 6A | |
| SMFEXID | 69 | |
| SMFEXIT | 68 | |
| SMFEXLK | 68 | |
| TXTEXEP | 72 | |
| TXTEXID | 71 | |
| TXTEXTIT | 70 | |
| TXTEXLK | 70 | |

NLLE Heading Information

Common Name: Nucleus Load List Element (NLLE)
Macro ID: IEANLLE
DSECT Name: None
Owning Component: IPL (SC1C9)
Eye-Catcher ID: NLLE
 Offset: 0
 Length: 4
Storage Attributes: Subpool: IPL workspace
 Key: 0
 Residency: Above 16M
Size: 48 bytes
Created by: IEAIP40
 IEAIP42
 IPXI50PS
Pointed to by: IVTNLLEF
 IVTNLLEL
 NLLNEXT
Serialization: None
Function: An NLLE is built for each module this is loaded into the DAT-on nucleus.

NLLE Map

| Offsets | | | | | |
|---------|------|------------|-----|------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 48 | NLLE | Nucleus load list element |
| 0 | (0) | CHARACTER | 4 | NLLID | NLLE identifier ('NLLE') |
| 4 | (4) | ADDRESS | 4 | NLLNEXT | Pointer to next NLLE |
| 8 | (8) | CHARACTER | 8 | NLLNAME | SYS1.NUCLEUS member name of module |
| 16 | (10) | ADDRESS | 4 | NLLPDS | Pointer to PDS directory entry |
| 20 | (14) | ADDRESS | 4 | NLLCESDP | Pointer to CESD list |
| 24 | (18) | SIGNED | 4 | NLLCESDL | Length of CESD list |
| 28 | (1C) | ADDRESS | 4 | NLLRLOCP | Pointer to relocation tables |
| 32 | (20) | SIGNED | 4 | NLLRLOCL | Length of relocation tables |
| 36 | (24) | SIGNED | 2 | NLLDIMCE | Dimension of CESD list |
| 38 | (26) | SIGNED | 2 | NLLCSECT | Number of CSECTs in module |
| 40 | (28) | SIGNED | 2 | NLLESDID | ESDID of control section to which first block of text belongs |
| 42 | (2A) | BITSTRING | 1 | NLLFLAGS | Flag byte |
| | | 1... | | NLLFNOWS | If 1, a wait state is NOT to be loaded if this module is not found |
| | | .1.. | | NLLRSTRT | If 1, if a wait state is loaded because this module is not found, the wait stat should be restartable. |
| | | ..11 1111 | | * | Reserved |
| 43 | (2B) | UNSIGNED | 1 | * | Reserved |
| 44 | (2C) | SIGNED | 4 | NLLEPTAB | Position in the nucleus entry point table where the current load module ends and the next load module begins. |

NLLE Constants

| Len | Type | Value | Name | Description |
|---|-----------|-------|---------|-----------------|
| Comment | | | | |
| The following constant is used to place an identifier in each NLLE (NLLID field). | | | | |
| End of Comment | | | | |
| 4 | CHARACTER | NLLE | NLLIDNM | NLLE identifier |

NLLE Cross Reference

| Name | Hex Offset | Hex Value |
|----------|------------|-----------|
| NLLCESDL | 18 | |
| NLLCESDP | 14 | |
| NLLCSECT | 26 | |
| NLLDIMCE | 24 | |
| NLLE | 0 | |
| NLLEPTAB | 2C | |
| NLLESDID | 28 | |
| NLLFLAGS | 2A | |
| NLLFNOWS | 2A | 80 |
| NLLID | 0 | |
| NLLNAME | 8 | |
| NLLNEXT | 4 | |
| NLLPDS | 10 | |
| NLLRLOCL | 20 | |
| NLLRLOCP | 1C | |
| NLLRSTRT | 2A | 40 |

NSSA Heading Information

Common Name: RTM Normal Stack Save Area
Macro ID: IHANSSA
DSECT Name: NSSA
Owning Component: Recovery Termination Manager (SCRTM)
Eye-Catcher ID: NSSA
Offset: Offset 0 and length 4
Subpool and Key: 239 and key 0
Size: 824 bytes
Serialization: None
Function: The NSSA contains a saved copy of the normal FRR Stack when an enabled unlocked task has established FRRs using the EUT=YES option of SETFRR macro.

NSSA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 992 | NSSA | |
| 0 | (0) | CHARACTER | 4 | NSSAID | CONTROL BLOCK ID - NSSA |
| 4 | (4) | ADDRESS | 4 | NSSALINK | POINTER TO NEXT NSSA IN POOL |
| 8 | (8) | CHARACTER | 984 | NSSAFRRS | AREA LARGE ENOUGH TO HOLD ENTIRE NORMAL STACK MINUS 12 BYTES |
| 992 | (3E0) | CHARACTER | 0 | NSSAEND | |

NUCMP Heading Information

Common Name: Nucleus Map Entry
Macro ID: IEANUCMP
DSECT Name: NUCMENT
Owning Component: Nucleus Initialization Program (SC1C8)
Eye-Catcher ID: None
Storage Attributes: Subpool: Nucleus
 Key: 0
 Residency: above 16M
Size: 16 bytes per entry
Created by: IEAIPL05
Pointed to by: CVTNUCMP
Serialization: None
Function: Describes the format of a nucleus map entry.

NUCMP Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 16 | NUCMEN | ENTRY IN THE NUCLEUS MAP |
| 0 | (0) | CHARACTER | 8 | NUCMNAME | CSECT OR ENTRY POINT NAME |
| 8 | (8) | ADDRESS | 4 | NUCMADDR | ADDRESS OF ENTRY POINT |
| 12 | (C) | CHARACTER | 1 | NUCMFLAG | VARIOUS ASSORTED FLAGS |
| | | 11.. | | * | UNUSED, MUST BE 0 |
| | | ..1. | | NUCMAM64 | AMODE 64 |
| | | ...1 | | NUCMSECT | 1 IF CSECT |
| | | 1111 | | NUCMRRAM | RSECT, RMODE, AMODE |
| | | 1... | | NUCMRSEC | RSECT FLAG |
| | |1.. | | NUCMRMOD | RMODE FLAG, (0 - 24 BIT), (1 - ANY) |
| | |11 | | NUCMAMOD | AMODE FLAG WHEN NUCAM64 IS OFF: (00 - 24 BIT), (01 - 24 BIT), (10 - 31 BIT), (11 - ANY) |
| 13 | (D) | UNSIGNED | 3 | NUCMLEN | LENGTH TO END OF CSECT |

NUCMP Cross Reference

| Name | Hex Offset | Hex Value |
|----------|------------|-----------|
| NUCMADDR | 8 | |
| NUCMAMOD | C | 03 |
| NUCMAM64 | C | 20 |
| NUCMEN | 0 | |
| NUCMFLAG | C | |
| NUCMLEN | D | |
| NUCMNAME | 0 | |
| NUCMRMOD | C | 04 |
| NUCMRRAM | C | 0F |
| NUCMRSEC | C | 08 |
| NUCMSECT | C | 10 |

NVT Heading Information

Common Name: NIP Vector Table
Macro ID: IHANVT
DSECT Name: NVT
Owning Component: Nucleus Initialization Program (SC1C8)
Eye-Catcher ID: NVT
 Offset: 0
 Length: 4
Storage Attributes: Subpool: 245
 Key: 0
 Residency: Nucleus, then moved to subpool 245
Size: 656 bytes
Created by: IEAVNIP0
 IEAVNIPM
Pointed to by: CVTNVT0
Serialization: None
Function: The NVT is the basic control block used during NIP processing.
 It contains pointers to numerous NIP-associated control blocks
 and to various NIP service routines.

NVT Map

| Offsets | | | | | |
|---------|------|------------|-----|------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 656 | NVT | Begin based NVT |
| 0 | (0) | CHARACTER | 4 | NVTID | CONTROL BLOCK ID |
| 4 | (4) | CHARACTER | 8 | NVTMODNM | NAME OF THE ACTIVE RIM |
| 12 | (C) | ADDRESS | 4 | NVTMODEP | ENTRY POINT ADDRESS OF THE ACTIVE RIM |
| 16 | (10) | CHARACTER | 3 | NVTR010 | Reserved |
| 19 | (13) | UNSIGNED | 1 | NVT07BRC | Reason code for 07B wait state |
| 20 | (14) | ADDRESS | 4 | NVTSPPT | ADDRESS OF THE VSM SPTTINDX |
| 24 | (18) | CHARACTER | 8 | NVTPARMM | Copy of merged set of load parameters |
| 32 | (20) | ADDRESS | 4 | NVTVSP | ADDRESS OF VSM SUBPOOL TABLE |
| 36 | (24) | ADDRESS | 4 | NVTLPALP | ADDRESS OF THE LPA DEVICE SUPPORT MODULE LIST |
| 40 | (28) | SIGNED | 4 | NVTLPALL | LENGTH OF THE LPA DEVICE SUPPORT MODULE LIST |
| 44 | (2C) | ADDRESS | 4 | NVTMQHP | POINTER TO THE IPL MESSAGE QUEUE HEADER (MQH). |
| 48 | (30) | ADDRESS | 4 | NVTDIAGA | POINTER TO NIP DIAGNOSTIC AREA |
| 52 | (34) | UNSIGNED | 2 | NVTIODFD | Hex device number of IODF Dataset used during IPL |
| 54 | (36) | CHARACTER | 1 | NVTNPATR | Module attribute |
| | | 1111 111. | | * | Reserved |
| | |1 | | NVTCTLGV | NVTCTLGP is valid if 1 |
| 55 | (37) | CHARACTER | 1 | NVTFLLB | SVCLIB LOGREC |
| | | 1... | | NVTFLSLB | SVCLIB LOGREC |
| 56 | (38) | ADDRESS | 4 | NVTMSTCB | NIP TCB pointer |
| 60 | (3C) | ADDRESS | 4 | NVTCTLGP | Address of catalog info. |
| 64 | (40) | ADDRESS | 4 | NVTMASCB | Master ASCB address |
| 68 | (44) | ADDRESS | 4 | NVTUSERP | Pointer to list of user parmlib elements. |
| 72 | (48) | ADDRESS | 4 | NVTSYMH | Pointer to symbol element header. |
| 76 | (4C) | ADDRESS | 4 | NVTSVCTB | Address of SVC table |
| 80 | (50) | BITSTRING | 4 | NVTFLGS | Misc NVTFlgs. |
| 80 | (50) | CHARACTER | 1 | NVTFLGS1 | First Byte of Flags. |
| | | 1... | | NVTVM | MVS Guest under VM. |
| | | .1.. | | NVTVMXA | MVS Guest under VM/XA. NOTE: NVTVM will be on also. |
| 81 | (51) | CHARACTER | 1 | NVTFLGS2 | 2nd Byte of Flags. |
| | | 1... | | NVTNOLMG | No License Manager Msg |
| | | .1.. | | NVTLSMPE | Do "special" processing for this LM call, since this is "our" call |
| 84 | (54) | ADDRESS | 4 | NVTIGCER | SVC error routine address |
| 88 | (58) | ADDRESS | 4 | NVTVMDI | LPA hash value address |

NVT Map

| Offsets | | | | | |
|-----------------------------------|------|------------|-----|-------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 92 | (5C) | ADDRESS | 4 | NVTMSLNK | LINK parmlist address |
| 96 | (60) | ADDRESS | 4 | NVTAVTP | Address of the Allocation Vector Table (AVT) |
| 100 | (64) | ADDRESS | 4 | NVTNCRP | Virtual address of NCR |
| 104 | (68) | ADDRESS | 4 | NVTLOAD | Virtual address of LOADxx |
| 108 | (6C) | ADDRESS | 4 | NVTNP0AD | Address of NIP0 |
| 112 | (70) | SIGNED | 4 | NVTNP0NO | Number of pages in IEAVNIP0 and IEAVNIPH combined. |
| 116 | (74) | ADDRESS | 4 | NVTIGXER | ESR error routine |
| 120 | (78) | SIGNED | 4 | NVTR078 | Reserved |
| 124 | (7C) | ADDRESS | 4 | NVTLSQAS | End of master SQA |
| 128 | (80) | SIGNED | 2 | NVTSQANO | Number of SQA pages |
| 130 | (82) | SIGNED | 2 | NVTLSQNO | Number of LSQA pages |
| 132 | (84) | SIGNED | 2 | NVTNCRC | Count of NCRs in buffer |
| 134 | (86) | SIGNED | 2 | NVTNCRL | Length of each NCR |
| 136 | (88) | SIGNED | 2 | NVTLOADL | Length of LOADxx record |
| 138 | (8A) | SIGNED | 2 | NVTNVSQA | No.of virtual seg of SQA |
| 140 | (8C) | CHARACTER | 8 | NVTABSAV | SVC table - SVC 13 |
| 140 | (8C) | ADDRESS | 4 | NVTABFST | |
| 144 | (90) | CHARACTER | 4 | NVTABSEC | |
| 148 | (94) | SIGNED | 4 | NVTR094 (3) | Reserved |
| 160 | (A0) | ADDRESS | 4 | NVTALSQA | Low address of M.S. LSQA |
| 164 | (A4) | ADDRESS | 4 | NVTASQA | Low address of SQA |
| 168 | (A8) | SIGNED | 4 | NVTESQAB | Total additional ESQA buffer for each subchannel installed. |
| 172 | (AC) | ADDRESS | 4 | NVTRTMSA | Addr. of RTM branch entry |
| 176 | (B0) | CHARACTER | 8 | NVTN0PSW | PSW points to NIP0 |
| 184 | (B8) | ADDRESS | 4 | NVTDOMID | DOMed message IEA247I |
| 188 | (BC) | CHARACTER | 3 | NVTR0BC | Reserved |
| 191 | (BF) | CHARACTER | 1 | NVTMTLSH | MTLSHARE value |
| 192 | (C0) | ADDRESS | 4 | NVTPPS | Address of MLPA |
| 196 | (C4) | ADDRESS | 4 | NVTPEPE | Ending address of MLPA |
| 200 | (C8) | ADDRESS | 4 | NVTEPPS | Address of EMLPA |
| 204 | (CC) | ADDRESS | 4 | NVTEPPE | Ending address of EMLPA |
| 208 | (D0) | CHARACTER | 1 | NVTARCLV | Architecture level |
| 209 | (D1) | CHARACTER | 1 | NVTNCXID | Nucleus extension ID |
| 210 | (D2) | CHARACTER | 1 | * | |
| | | 1... | | NVTETR | ETR indicator |
| | | .1.. | | NVTPCS | PCS indicator |
| | | ..1. | | NVTETRSS | ETR secondary indicator |
| | | ...1 | | NVTCSP | CSP command indicator |
| | | 1... | | * | Reserved |
| | |1.. | | NVTASYNC | Asynchronous paging indicator |
| | |11 | | * | Reserved |
| 211 | (D3) | CHARACTER | 1 | NVTFLCN | |
| | | 1... | | NVTWTOIN | WTO initialized |
| | | .1.. | | NVTCL | System console communications are supported. |
| | | ..11 111. | | * | Reserved |
| | |1 | | NVTCLKER | TOD clock was in error |
| 212 | (D4) | SIGNED | 4 | NVTOD | TOD clock value |
| 216 | (D8) | CHARACTER | 8 | NVTMCPSW | Machine check PSW |
| 224 | (E0) | CHARACTER | 8 | NVTWTPSW | System wait state PSW |
| 224 | (E0) | CHARACTER | 4 | NVTWPSW1 | First word of PSW |
| 228 | (E4) | SIGNED | 4 | NVTWPSW2 | Second word of PSW |
| 228 | (E4) | CHARACTER | 2 | NVTIDPSW | NIP module name |
| 230 | (E6) | CHARACTER | 2 | NVTWSCD | Wait state code |
| 230 | (E6) | CHARACTER | 1 | NVTFLWS1 | |
| 231 | (E7) | CHARACTER | 1 | NVTFLWSC | |
| 231 | (E7) | CHARACTER | 1 | NVTIX | End initial NVT |
| Comment | | | | | |
| NVT pointers to IEAVNIPM routines | | | | | |
| End of Comment | | | | | |
| 232 | (E8) | ADDRESS | 4 | NVTR0E8 | Reserved |
| 236 | (EC) | ADDRESS | 4 | NVTSENSE | SENSE routine address |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|--------------|---------------------------------|
| Dec | Hex | | | | |
| 240 | (F0) | ADDRESS | 4 | NVTR0F0 | Reserved. |
| 244 | (F4) | ADDRESS | 4 | NVTTIME | TIME routine address |
| 248 | (F8) | ADDRESS | 4 | NVTR0F8 | Reserved. |
| 252 | (FC) | ADDRESS | 4 | NVTR0FC (3) | Reserved. |
| 264 | (108) | ADDRESS | 4 | NVTOPEX | NIPOPEX routine address |
| 268 | (10C) | ADDRESS | 4 | NVTMOUNT | NIPMOUNT routine address |
| 272 | (110) | ADDRESS | 4 | NVTPRMPT | NIPPRMPT routine address |
| 276 | (114) | ADDRESS | 4 | NVTR114 (3) | Reserved |
| 288 | (120) | ADDRESS | 4 | NVTNSRVP | DFP NIP service vector address |
| 292 | (124) | ADDRESS | 4 | NVTNIPM (2) | IEAVNIPM base reg save area |
| 300 | (12C) | ADDRESS | 4 | NVTNPM4 | NIP OPEN and MOUNT routine |
| 304 | (130) | ADDRESS | 4 | NVTNCTAD | NIP console table address |
| 308 | (134) | ADDRESS | 4 | NVTUCB | Active console UCB addr |
| 312 | (138) | SIGNED | 4 | NVTCODE | Active console device code |
| 316 | (13C) | ADDRESS | 4 | NVTR13C (2) | Reserved |
| 324 | (144) | ADDRESS | 4 | NVTDCBIC | Input console DCB address |
| 328 | (148) | ADDRESS | 4 | NVTDCBOC | Output console DCB address |
| 332 | (14C) | ADDRESS | 4 | NVTDCBSN | SYS1.NUCLEUS DCB address |
| 336 | (150) | ADDRESS | 4 | NVTMBUF | SQA message buffer address |
| 340 | (154) | ADDRESS | 4 | NVTMBEND | End of message buffer |
| 344 | (158) | ADDRESS | 4 | NVTSPE (2) | NIPSPE queue origin |
| 352 | (160) | SIGNED | 4 | NVTR160 | Reserved |
| 356 | (164) | CHARACTER | 2 | NVTCPUAD | Address of CPU with lock |
| 358 | (166) | CHARACTER | 2 | NVTR166 | Reserved |
| 360 | (168) | SIGNED | 2 | NVTR168 | Reserved |
| 362 | (16A) | CHARACTER | 2 | NVTR16A | Reserved |
| 364 | (16C) | ADDRESS | 4 | NVTR16C | Reserved |
| 368 | (170) | ADDRESS | 4 | NVTPAREA | First parameter area pointer |
| 372 | (174) | ADDRESS | 4 | NVTPTAB | Origin of parameter table |
| 376 | (178) | ADDRESS | 4 | NVTQSBUF | Quick start buffer address |
| 380 | (17C) | ADDRESS | 4 | NVTSVCN | SVC table work area address |
| 384 | (180) | ADDRESS | 4 | NVTR180 (4) | Reserved |
| 400 | (190) | ADDRESS | 4 | NVTVRBLD | LPA BLDL entry address |
| 404 | (194) | ADDRESS | 4 | NVTR194 | Reserved |
| 408 | (198) | ADDRESS | 4 | NVTCSLIB | SYS1.LPALIB DCB address |
| 412 | (19C) | ADDRESS | 4 | NVTCSLNM | Current LPA name address |
| 416 | (1A0) | ADDRESS | 4 | NVTCSIOB | Address of IOB fail cold start |
| 420 | (1A4) | ADDRESS | 4 | NVTR1A4 (2) | Reserved |
| 428 | (1AC) | CHARACTER | 8 | NVTXCTL | XCTL address |
| 436 | (1B4) | CHARACTER | 8 | NVTLOCAT | LOCATE SVC table entry |
| 436 | (1B4) | ADDRESS | 4 | NVTLFST | SVC routine address |
| 440 | (1B8) | CHARACTER | 4 | NVTLSEC | Flags and attribute |
| 444 | (1BC) | CHARACTER | 8 | NVTWTSVAV | Save WTO SVC table entry |
| 444 | (1BC) | ADDRESS | 4 | NVTWTFST | SVC routine address |
| 448 | (1C0) | CHARACTER | 4 | NVTWTSEC | Flags and attributes |
| 452 | (1C4) | ADDRESS | 4 | NVTR1C4 (10) | Reserved |
| 492 | (1EC) | ADDRESS | 4 | NVTONUCS | NUCLEUS start address |
| 496 | (1F0) | ADDRESS | 4 | NVTONUCE | NUCLEUS ending address |
| 500 | (1F4) | ADDRESS | 4 | NVTPLDCB | PARMLIB DCB address |
| 504 | (1F8) | SIGNED | 4 | NVTPLBKL | PARMLIB block size |
| 508 | (1FC) | ADDRESS | 4 | NVTPLBFS | PARMLIB buffer address |
| 512 | (200) | ADDRESS | 4 | NVTPLBFE | PARMLIB buffer end address |
| 516 | (204) | ADDRESS | 4 | NVTPLRCD | PARMLIB buffer record processed |
| 520 | (208) | CHARACTER | 8 | NVTPLNAM | Name of last PARMLIB member |
| 528 | (210) | CHARACTER | 1 | NVTFLPO | Parameter options flags |
| | | 1... .. | | NVTFLST | Display PARMLIB lists |
| | | .1... .. | | NVTSYSP | NP03 in prompt mode |
| | | ..11 ... | | * | Reserved. |
| | | 1... | | NVTFLQS | LPA is quick startable |
| | |1.. | | NVTFLWS | Warm start VAM datasets |
| | |1. | | NVTNPFL | NOPROT was specified for FLPA |
| | |1 | | NVTNPML | NOPROT was specified for MLPA |
| 529 | (211) | CHARACTER | 3 | NVTR211 | Reserved |
| 532 | (214) | CHARACTER | 64 | NVTDIAG | Diagnostic area |

NVT Constants

| Offsets | | | | | |
|---------|-------|------------|-----|-----------------|-------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 532 | (214) | ADDRESS | 4 | NVTDIAGR (0 15) | Register savearea |
| 596 | (254) | CHARACTER | 60 | NVTNCT | NIP console table |
| 656 | (290) | CHARACTER | 0 | * | End of NVT |

| Offsets | | | | | |
|---------|-----|------------|-----|------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 8 | NVTPARMS | Mapping of merged set of load parameters used to IPL. |
| 0 | (0) | CHARACTER | 4 | NVTIODFU | IODF Dataset unit address in EBCDIC |
| 4 | (4) | CHARACTER | 2 | NVTLOADS | LOADxx Member Suffix |
| 6 | (6) | CHARACTER | 1 | NVTPROMT | Prompt Operator Flag. |
| 7 | (7) | CHARACTER | 1 | NVTNUCID | IEANUC0X suffix: Nucleus ID |

NVT Constants

| Len | Type | Value | Name | Description |
|-----|------|-------|-----------|---|
| 1 | HEX | 30 | NVTFLWAB | UNEXPECTED TASK ABEND |
| 1 | HEX | 32 | NVTFLWNN | NIP MODULE NOT FOUND BY BLDL |
| 1 | HEX | 33 | NVTFLWBN | I/O ERROR ON BLDL |
| 1 | HEX | 37 | NVTFLWNL | REQUIRED LIBRARY NOT FOUND |
| 1 | HEX | 0A | NVTFLWLC | SYS1.LINKLIB NOT CATALOGED |
| 1 | HEX | 39 | NVTFLWPR | PERM RESIDENT MOUNT CONFLICT |
| 1 | HEX | 3C | NVTFLWNM | INSUFFICIENT AUXILIARY STORAGE |
| 1 | HEX | 3F | NVTFLWSE | NIP DIAGNOSED SYSTEM ERROR |
| 1 | HEX | 40 | NVTFLWAM | UNEXPECTED NIP TASK ABEND |
| 1 | HEX | 07 | NVTFLWNC | No NIP console. |
| 1 | HEX | 46 | NVTF0UPC | NIP0 PROG CHECK |
| 1 | HEX | 7B | NVTFNXAX | RESULTS FROM AN OPERATION EXCEPTION ON INSTRUCTION SUPPORTED BY THE 370/XA EXTENSIONS ARCHITECTURE. |
| 1 | HEX | 7B | NVTFNFINI | Facility not installed (of which LAE is one). |
| 1 | HEX | 60 | NVTWCN02 | FINDPAGE FAILURE |
| 1 | HEX | 61 | NVTWCN03 | STORE CLOCK ERROR |
| 1 | HEX | 4A | NVTWCN05 | TOD CLOCK ERROR |
| 1 | HEX | 63 | NVTWCN01 | GETMAIN FAILED |
| 1 | HEX | 5C | NVTWCN07 | CANT RETRIEVE CATALOG POINTER FROM THE SYS1.NUCLEUS D.S. |
| 1 | HEX | 5D | NVTWCN08 | CANT READ DSCB FOR MASTER CATALOG |
| 1 | HEX | 5E | NVTWCN09 | I/O ERROR READING CATALOG SELF-DESCRIBING RECORDS |
| 1 | HEX | 5F | NVTWCN10 | CATALOG DAMAGE |
| 1 | HEX | 64 | NVTWCN11 | RTM ENTERED AT NIP |
| 1 | HEX | 65 | NVTWCN12 | INVALID SVC ISSUED |
| 1 | HEX | 44 | NVTWCN14 | MACHINE CHECK |
| 1 | HEX | 59 | NVTWCN17 | UNDEFINED BLDL RC |
| 1 | HEX | E8 | NVTWS0E8 | LOADED BY IGFRIM00 |
| 1 | HEX | 1F | NVTXMSIM | Request for cross memory simulation |
| 1 | HEX | 53 | NVTWCSQA | SQA HAS BEEN EXHAUSTED. |

NVT Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|-----------|------------|-----------|----------|------------|-----------|
| NVT | 0 | | NVTMBUF | 150 | |
| NVTABFST | 8C | | NVTMCPSW | D8 | |
| NVTABSAV | 8C | | NVTMODEP | C | |
| NVTABSEC | 90 | | NVTMODNM | 4 | |
| NVTALSQA | A0 | | NVTMOUNT | 10C | |
| NVTARCLV | D0 | | NVTMQHP | 2C | |
| NVTASQA | A4 | | NVTMSLNK | 5C | |
| NVTASYNC | D2 | 04 | NVTMSTCB | 38 | |
| NVTAVTP | 60 | | NVTMTLSH | BF | |
| NVTCI | D3 | 40 | NVTNCRC | 84 | |
| NVTCLKER | D3 | 01 | NVTNCRL | 86 | |
| NVTCODE | 138 | | NVTNCRP | 64 | |
| NVTCPUAD | 164 | | NVTNCT | 254 | |
| NVTCSIOB | 1A0 | | NVTNCTAD | 130 | |
| NVTCSLIB | 198 | | NVTNCXID | D1 | |
| NVTCSLNM | 19C | | NVTNIPM | 124 | |
| NVTCSP | D2 | 10 | NVTNOLMG | 51 | 80 |
| NVTCTLGP | 3C | | NVTNPATR | 36 | |
| NVTCTLGV | 36 | 01 | NVTNPFL | 210 | 02 |
| NVTDCBIC | 144 | | NVTNPML | 210 | 01 |
| NVTDCBOC | 148 | | NVTNPM4 | 12C | |
| NVTDCBSN | 14C | | NVTNP0AD | 6C | |
| NVTDIAG | 214 | | NVTNP0NO | 70 | |
| NVTDIAGA | 30 | | NVTNSRVP | 120 | |
| NVTDIAGR | 214 | | NVTNUCID | 7 | |
| NVTDOMID | B8 | | NVTNVSQA | 8A | |
| NVTEPPE | CC | | NVTN0PSW | B0 | |
| NVTEPPS | C8 | | NVTONUCE | 1F0 | |
| NVTESQAB | A8 | | NVTONUCS | 1EC | |
| NVTETR | D2 | 80 | NVTOPEN | 108 | |
| NVTETRSS | D2 | 20 | NVTPAREA | 170 | |
| NVTFLCN | D3 | | NVTPARMM | 18 | |
| NVTFLGS | 50 | | NVTPARMS | 0 | |
| NVTFLGS1 | 50 | | NVTPCS | D2 | 40 |
| NVTFLGS2 | 51 | | NVTPLBFE | 200 | |
| NVTFLLB | 37 | | NVTPLBFS | 1FC | |
| NVTFLLST | 210 | 80 | NVTPLBKL | 1F8 | |
| NVTFLPO | 210 | | NVTPLDCB | 1F4 | |
| NVTFLQS | 210 | 08 | NVTPLNAM | 208 | |
| NVTFLSLB | 37 | 80 | NVTPLRCD | 204 | |
| NVTFLWS | 210 | 04 | NVTPPE | C4 | |
| NVTFLWSC | E7 | | NVTPPS | C0 | |
| NVTFLWS1 | E6 | | NVTPRMPT | 110 | |
| NVTID | 0 | | NVTPROMT | 6 | |
| NVTIDPSW | E4 | | NVTPTAB | 174 | |
| NVTIGCER | 54 | | NVTQSBUF | 178 | |
| NVTIGXER | 74 | | NVTRTMSA | AC | |
| NVTIODFD | 34 | | NVTR0BC | BC | |
| NVTIODFU | 0 | | NVTR0E8 | E8 | |
| NVTIX | E7 | | NVTR0FC | FC | |
| NVTLFST | 1B4 | | NVTR0F0 | F0 | |
| NVTLMSPPE | 51 | 40 | NVTR0F8 | F8 | |
| NVTLOAD | 68 | | NVTR010 | 10 | |
| NVTLOADL | 88 | | NVTR078 | 78 | |
| NVTLOADS | 4 | | NVTR094 | 94 | |
| NVTLOCAT | 1B4 | | NVTR1A4 | 1A4 | |
| NVTLPALL | 28 | | NVTR1C4 | 1C4 | |
| NVTLPALP | 24 | | NVTR114 | 114 | |
| NVTLSEC | 1B8 | | NVTR13C | 13C | |
| NVTLSQAS | 7C | | NVTR16A | 16A | |
| NVTLSQNO | 82 | | NVTR16C | 16C | |
| NVTMASCB | 40 | | NVTR160 | 160 | |
| NVTMBEND | 154 | | NVTR166 | 166 | |

NVT Cross Reference

| Name | Hex Offset | Hex Value |
|-----------|---------------|--------------|
| NVTR168 | 168 | |
| NVTR180 | 180 | |
| NVTR194 | 194 | |
| NVTR211 | 211 | |
| NVTSSENSE | EC | |
| NVTSPE | 158 | |
| NVTSPTT | 14 | |
| NVTSQANO | 80 | |
| NVTSVCN | 17C | |
| NVTSVCTB | 4C | |
| NVTSYMH | 48 | |
| NVTSYSP | 210 | 40 |
| NVTTIME | F4 | |
| NVTTOD | D4 | |
| NVTUCB | 134 | |
| NVTUSERP | 44 | |
| NVTVM | 50 | 80 |
| NVTVMXA | 50 | 40 |
| NVTVRBLD | 190 | |
| NVTVSP | 20 | |
| NVTVVMDI | 58 | |
| NVTWPSW1 | E0 | |
| NVTWPSW2 | E4 | |
| NVTWSCD | E6 | |
| NVTWTFST | 1BC | |
| NVTWTOIN | D3 | 80 |
| NVTWTPSW | E0 | |
| NVTWTSV | 1BC | |
| NVTWTSEC | 1C0 | |
| NVTXCTL | 1AC | |
| NVT07BRC | 13 | |

OMDG Heading Information

Common Name: N/A
Macro ID: N/A
DSECT Name: N/A
Owning Component: N/A
Eye-Catcher ID: N/A
 Offset: N/A
 Length: N/A
Storage Attributes: Main Storage: N/A
 Virtual Storage: N/A
 Auxiliary Storage: N/A
 Subpool: N/A
 Key: N/A
 Data Space: N/A
 Residency: N/A
Size: N/A
Created by: N/A
Pointed to by: N/A
Serialization: N/A
Function: N/A

OMDG Map

| Offsets | | | | | |
|---------|------|------------|-----|------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | OMDGLIST | OMD gatherer parameter list |
| 0 | (0) | CHARACTER | 4 | OMDGACR | Acronym 'OMDG' |
| 4 | (4) | CHARACTER | 1 | OMDGVVER | Version level |
| 5 | (5) | CHARACTER | 3 | | Reserved |
| 8 | (8) | BITSTRING | 1 | OMDGFNCD | Function codes |
| | | 1... | | OMDGWTO | "X'80" Code for WTO's |
| | | .1.. | | OMDGCMD | "X'40" Code for commands |
| | | ..1. | | OMDGWTL | "X'20" Code for WTL's |
| | | ...1 | | OMDGWQE | "X'10" Code for max # WTO's on the queue |
| | | 1... | | OMDGORE | "X'08" Code for max # WTOR's on the queue |
| | |1.. | | OMDGAMR | "X'04" Code for max # AMRQ's on the queue |
| 9 | (9) | BITSTRING | 1 | | Reserved |
| 10 | (A) | BITSTRING | 1 | OMDGRSCD | Reason codes |
| | | 1... | | OMDGRWTO | "X'80" No WTO data gathered |
| | | .1.. | | OMDGRCMD | "X'40" No commands data gathered |
| | | ..1. | | OMDGRWTL | "X'20" no WTL data gathered |
| 11 | (B) | BITSTRING | 1 | | Reserved |
| 12 | (C) | SIGNED | 4 | OMDGWTOI | # of WTO's issued |
| 16 | (10) | SIGNED | 4 | OMDGCMDI | # of commands issued |
| 20 | (14) | SIGNED | 4 | OMDGWTLI | # of WTL's issued |
| 24 | (18) | SIGNED | 4 | OMDGWQEB | Max # of WTO's on the queue |
| 28 | (1C) | SIGNED | 4 | OMDGOREB | Max # of WTOR's on the queue |
| 32 | (20) | SIGNED | 4 | OMDGAMRE | Max # of entries on AMRQ queue |
| 36 | (24) | CHARACTER | 16 | | Reserved |
| 36 | (24) | X'34' | 0 | OMDGLEN | "*-OMDGLIST" Length of macro |
| 36 | (24) | X'1' | 0 | OMDGSP41 | "1" Version level MVS/XA HBB4410 |
| 36 | (24) | X'1' | 0 | OMDGVRID | "OMDGSP41" Version level |

OMDG Cross Reference

OMDG Cross Reference

| Name | Hex Offset | Hex Value |
|----------|---------------|--------------|
| OMDGACR | 0 | |
| OMDGAMR | 8 | 4 |
| OMDGAMRE | 20 | |
| OMDGCMD | 8 | 40 |
| OMDGCMDI | 10 | |
| OMDGFNCD | 8 | |
| OMDGLEN | 24 | 34 |
| OMDGLIST | 0 | |
| OMDGORE | 8 | 8 |
| OMDGOREB | 1C | |
| OMDGRCMD | A | 40 |
| OMDGRSCD | A | |
| OMDGRWTL | A | 20 |
| OMDGRWTO | A | 80 |
| OMDGSP41 | 24 | 1 |
| OMDGVER | 4 | |
| OMDGVRID | 24 | 1 |
| OMDGWQE | 8 | 10 |
| OMDGWQEB | 18 | |
| OMDGWTL | 8 | 20 |
| OMDGWTLI | 14 | |
| OMDGWTO | 8 | 80 |
| OMDGWTOI | C | |

OPSPL Heading Information

Common Name: ASM ILROPS00 Parameter List
Macro ID: ILROPSPL
DSECT Name: OPSPL
Owning Component: Auxiliary Storage Manager (SC1CW)
Eye-Catcher ID: None
Storage Attributes: Subpool: Caller defined
 Key: Caller defined
 Residency: Caller defined
Size: 68-bytes
Created by: Caller
Pointed to by: User defined variable, OPSPLPTR
Serialization: none
Function: Contains information necessary to interface with module ILROPS00. It serves as the parameter list for input and output for the module.

OPSPL Map

| Offsets | | | | | |
|---------|------|------------|-----|------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 136 | OPSPL | ILROPS00 Parameter List |
| 0 | (0) | BITSTRING | 1 | OPSFLG1 | Input flags |
| | | 1... | | * | Reserved |
| | | .1.. | | OPSPGAD | PAGEADD/PAGEDEL time indicator. 1 = processing a PAGEADD or PAGEDEL, after NIP time, 0 = processing during NIP |
| | | ..1. | | OPSLOCV | 1 = Locate the VIO journaling data set and return to caller with the return code. 0 = Do regular page data set OPEN processing. |
| | | ...1 | | OPSF1R1 | Reserved |
| | | 1... | | OPSNOCB | Control block flag. 1 = do not get control blocks for the data set (used at NIP time to ensure that a data set is mounted and online without building control blocks for it), 0 = build data set control blocks. |
| | |1.. | | OPSPCD | PLPA/common flag. . 1 = data set is either the PLPA, or common page data set, 0 = data set is a local page data set |
| | |1. | | * | Reserved |
| | |1 | | OPSF1R2 | Reserved |
| 1 | (1) | UNSIGNED | 1 | OPSDUSE | Device usage code |
| 2 | (2) | UNSIGNED | 1 | OPSFUNC | ILROPS00 function code |
| 3 | (3) | CHARACTER | 1 | OPSRSV1 | Reserved |
| 4 | (4) | CHARACTER | 44 | OPSDSN | Data set name (on input). This field is overlaid on output. |
| 4 | (4) | ADDRESS | 4 | OPSIORB | IORB pointer |
| 8 | (8) | ADDRESS | 4 | OPSUCB | UCB pointer |
| 12 | (C) | ADDRESS | 4 | OPSEDB | EDB pointer |
| 16 | (10) | UNSIGNED | 4 | OPSLTNUM | Number of slots on the data set |
| 20 | (14) | CHARACTER | 2 | OPSDVTYP | Device type |
| 22 | (16) | CHARACTER | 6 | OPSVOL | Volume serial number |
| 28 | (1C) | ADDRESS | 4 | OPSQAPTR | GETMAIN pointer in SQA |
| 32 | (20) | ADDRESS | 4 | OPSQALEN | GETMAIN length in SQA |
| 36 | (24) | CHARACTER | 4 | OPSCCHHB | Beginning CCHH for ECKD |
| 40 | (28) | CHARACTER | 4 | OPSCCHHE | Ending CCHH for ECKD |
| 44 | (2C) | BITSTRING | 1 | OPSFLG2 | ILROPS00 output flags |
| | | 1... | | OPSECKD | ECKD architecture flag. 1 = data set is on an ECKD device, 0 = non-ECKD device. |
| | | .1.. | | OPSPAVOK | WLM managed PAV device. 1 = data set is on a Shark storage subsystem with WLM managed alias defined, 0 = data set is normal. |

OPSPS Map

| Offsets | | | | | |
|---------|------|------------|-----|------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| | | ..1. | | OPSCACHEOK | 1 = data set is on a device for which we should not bypass caching, 0 = caching should be bypassed |
| | | ...1 | | * | Reserved |
| | | 1111 | | OPSF2R | Reserved |
| 45 | (2D) | UNSIGNED | 1 | * | Reserved |
| 46 | (2E) | UNSIGNED | 2 | OPSCCWS | Number of PCCWs actually initialized - may be affected by an excess CCW count |
| 48 | (30) | CHARACTER | 20 | OPSPART2 | Other output section of the parameter list |
| 48 | (30) | ADDRESS | 4 | OPSDEIB | DEIB pointer |
| 52 | (34) | UNSIGNED | 2 | OPSDCCWS | Number of PCCWs for the device type, before considering any excess CCW count |
| 54 | (36) | CHARACTER | 2 | * | Reserved |
| 56 | (38) | BITSTRING | 8 | OPSDTIME | Dataset define timestamp |
| 64 | (40) | CHARACTER | 4 | OPSALOC | Allocation reason code fields |
| 64 | (40) | CHARACTER | 2 | OPSError | Error reason code for allocation failure |
| 66 | (42) | CHARACTER | 2 | OPSINFO | Information reason code for allocation failure |

Comment

FREE CONTROL BLOCKS functional parameter list

End of Comment

| | | | | | |
|----|------|-----------|----|--------------|------------------------------------|
| 68 | (44) | CHARACTER | 16 | OPSFREE_PL | Free control blocks parameter list |
| 68 | (44) | ADDRESS | 4 | OPSFREE_EDB | EDB address |
| 72 | (48) | ADDRESS | 4 | OPSFREE_DEIB | DEIB address (page only) |
| 76 | (4C) | ADDRESS | 4 | OPSFREE_IORB | IORB/IOSB/SRB/SRB address |
| 80 | (50) | ADDRESS | 4 | OPSFREE_PAT | PAT address |

Comment

UNALLOCATE DATA SET functional parameter list

End of Comment

| | | | | | |
|----|------|-----------|----|-----------------|------------------------------------|
| 84 | (54) | CHARACTER | 12 | OPSUNALC_PL | Unallocate data set parameter list |
| 84 | (54) | ADDRESS | 4 | OPSUNALC_UCB | UCB address |
| 88 | (58) | UNSIGNED | 1 | * | Reserved |
| 89 | (59) | BITSTRING | 1 | OPSUNALC_FLAGS | Flags |
| | | 1... | | * | Reserved |
| 90 | (5A) | CHARACTER | 2 | * | Reserved |
| 92 | (5C) | ADDRESS | 4 | OPSUNALC_DSNPTR | Dataset name address |

Comment

BUILD CONTROL BLOCKS functional parameter list

End of Comment

| | | | | | |
|-----|------|-----------|----|---------------|---|
| 96 | (60) | CHARACTER | 40 | OPSBLD_PL | Build control blocks parameter list |
| 96 | (60) | ADDRESS | 4 | OPSBLD_PCTQA | Address of the PCT queue header (e.g. PARTPCTQ) |
| 100 | (64) | ADDRESS | 4 | OPSBLD_XARTE | PARTE address |
| 104 | (68) | ADDRESS | 4 | OPSBLD_DVTAB | DVTAB address |
| 108 | (6C) | ADDRESS | 4 | OPSBLD_PCT | PCT address |
| 112 | (70) | ADDRESS | 4 | OPSBLD_PAT | PAT address |
| 116 | (74) | SIGNED | 4 | OPSBLD_LENPAT | PAT length |
| 120 | (78) | SIGNED | 4 | OPSBLD_SLTNUM | Number of slots |
| 124 | (7C) | CHARACTER | 4 | OPSBLD_CCHHB | Beginning CCHH |
| 128 | (80) | CHARACTER | 4 | OPSBLD_CCHHE | Ending CCHH |
| 132 | (84) | CHARACTER | 2 | OPSBLD_DVTYP | Device type |
| 134 | (86) | UNSIGNED | 1 | OPSBLD_DUSE | Device usage type |
| 135 | (87) | BITSTRING | 1 | * | Reserved |

OPSPL Constants

| Len | Type | Value | Name | Description |
|--------------------------|---------|-------|----------|---------------------------------------|
| ILROPS00 function codes. | | | | |
| End of Comment | | | | |
| 1 | DECIMAL | 0 | OPSOPEN | OPEN DATA SET code |
| 1 | DECIMAL | 1 | OPSFREE | FREE DATA SET CONTROL BLOCKS code |
| 1 | DECIMAL | 2 | OPSUNALC | UNALLOCATE DATA SET code |
| 1 | DECIMAL | 3 | OPSLD | BUILD PAT/PCT code |
| 1 | DECIMAL | 4 | OPSCU | NIP-time UCB processing code |
| 1 | DECIMAL | 5 | OPSPAV | Enable PAV processing |
| 1 | DECIMAL | 6 | OPSSER | Perform MSI-time ENQ processing |
| 1 | DECIMAL | 7 | OPSCACHE | Perform Post-MSI Cache initialization |

OPSPL Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|--------------|------------|-----------|-----------------|------------|-----------|
| OPSALOCD | 40 | | OPSPART2 | 30 | |
| OPSLD_CCHHB | 7C | | OPSPAVOK | 2C | 40 |
| OPSLD_CCHHE | 80 | | OPSPCD | 0 | 04 |
| OPSLD_DUSE | 86 | | OPSPGAD | 0 | 40 |
| OPSLD_DVTAB | 68 | | OPSPL | 0 | |
| OPSLD_DVTYP | 84 | | OPSQALen | 20 | |
| OPSLD_LENPAT | 74 | | OPSQAPTR | 1C | |
| OPSLD_PAT | 70 | | OPSRV1 | 3 | |
| OPSLD_PCT | 6C | | OPSUCB | 8 | |
| OPSLD_PCTQA | 60 | | OPSUNALC_DSNPTR | 5C | |
| OPSLD_PL | 60 | | OPSUNALC_FLAGS | 59 | |
| OPSLD_SLTNUM | 78 | | OPSUNALC_PL | 54 | |
| OPSLD_XARTE | 64 | | OPSUNALC_UCB | 54 | |
| OPSCACHEOK | 2C | 20 | OPSVOL | 16 | |
| OPSCCHHB | 24 | | | | |
| OPSCCHHE | 28 | | | | |
| OPSCCWS | 2E | | | | |
| OPSDCCWS | 34 | | | | |
| OPSDEIB | 30 | | | | |
| OPSDSN | 4 | | | | |
| OPSDTIME | 38 | | | | |
| OPSDUSE | 1 | | | | |
| OPSDVTYP | 14 | | | | |
| OPSECKD | 2C | 80 | | | |
| OPSEDB | C | | | | |
| OPSErrorR | 40 | | | | |
| OPSFLG1 | 0 | | | | |
| OPSFLG2 | 2C | | | | |
| OPSFREE_DEIB | 48 | | | | |
| OPSFREE_EDB | 44 | | | | |
| OPSFREE_IORB | 4C | | | | |
| OPSFREE_PAT | 50 | | | | |
| OPSFREE_PL | 44 | | | | |
| OPSFUNC | 2 | | | | |
| OPSF1R1 | 0 | 10 | | | |
| OPSF1R2 | 0 | 01 | | | |
| OPSF2R | 2C | 0F | | | |
| OPSINFO | 42 | | | | |
| OPSIORB | 4 | | | | |
| OPSLOCV | 0 | 20 | | | |
| OPSLTNUM | 10 | | | | |
| OPSNOCB | 0 | 08 | | | |

ORB Heading Information

Common Name: Operation Request Block
Macro ID: IHAORB
DSECT Name: IHAORB
Owning Component: I/O Supervisor (SC1C3)
Eye-Catcher ID: N/A
 Offset: N/A
 Length: N/A
Storage Attributes: Subpool: 245
 Key: 0
 Data Space: N/A
 Residency: 31 Bit
Size: 12 or 32 bytes
Created by: Issuers of the SSCH instruction
Pointed to by: IOWORB field of the IOWA (IOSDIOWA)
Serialization: None
Function: Maps the hardware operation request block.
 The ORB is the operand of the start subchannel instruction and contains the interruption parameter, the address of the first CCW, and status information.

ORB Map

| Offsets | | | | | |
|---|-----|------------|-----|------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 32 | ORB | |
| Comment | | | | | |
| ORB basic section. This section does not include the ORB extension. | | | | | |
| End of Comment | | | | | |
| 0 | (0) | CHARACTER | 12 | ORBBASIC | ORB basic section |
| 0 | (0) | BITSTRING | 4 | ORBIP | Interrupt parameter |
| 0 | (0) | SIGNED | 4 | ORBIPA | Interrupt parameter |
| 0 | (0) | ADDRESS | 4 | ORBIPP | Interrupt parameter |
| 4 | (4) | BITSTRING | 1 | ORBFLG0 | Flags |
| | | 1111 | | ORBKEY | - Key |
| | | 1... | | ORBS | - Channel program has suspend capability. |
| | |1.. | | ORBC | - Streaming Mode Control |
| | |1. | | ORBM | - Synchronize Control - PCI |
| | |1 | | ORBY | - Synchronize Control |
| 5 | (5) | BITSTRING | 1 | ORBFLG1 | Flags |
| | | 1... | | ORBF | - Format of channel program. If 0, format 0 CCWs. If 1, format 1 CCWs. |
| | | .1.. | | ORBP | - Prefetch of CCWs is allowed |
| | | ..1. | | ORBI | - Initial status response requested. |
| | | ...1 | | ORBA | - Address limit check required |
| | | 1... | | ORBSSPI | - Suppress suspend interrupt |
| | |1.. | | * | - Reserved - must be zero |
| | |1. | | * | - Reserved |
| | |1 | | * | - Reserved |
| 6 | (6) | BITSTRING | 1 | ORBLPM | Logical path mask (LPM) to be used for this request |
| 7 | (7) | BITSTRING | 1 | ORBFLG2 | Flags |
| | | 1... | | ORBL | - Incorrect length suppression mode |
| | | .1.. | | * | - Reserved |

ORB Cross Reference

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---|------|------------|-----|------------|------------------------------------|
| Dec | Hex | | | | |
| | | ...1. | | * | - Reserved |
| | | ...1 | | * | - Reserved |
| | | 1... | | * | - Reserved |
| | |1.. | | * | - Reserved |
| | |1. | | * | - Reserved |
| | |1 | | ORBX | - ORB extension is present |
| 8 | (8) | ADDRESS | 4 | ORBCPA | Channel program address (absolute) |
| Comment | | | | | |
| End of ORB basic section. If ORBX is off, this represents the end of the ORB. | | | | | |
| End of Comment | | | | | |
| 12 | (C) | CHARACTER | 0 | ORBBEND | End of ORB basic section |
| Comment | | | | | |
| Start of ORB extension. This section is present only when ORBX is on. | | | | | |
| End of Comment | | | | | |
| 12 | (C) | CHARACTER | 20 | ORBEXT | ORB extension |
| 12 | (C) | CHARACTER | 4 | ORBWORD3 | ORB word 3 |
| 12 | (C) | UNSIGNED | 4 | * | Reserved |
| 16 | (10) | CHARACTER | 4 | ORBWORD4 | ORB word 4 |
| 16 | (10) | UNSIGNED | 4 | * | Reserved |
| 20 | (14) | CHARACTER | 4 | ORBWORD5 | ORB word 5 |
| 20 | (14) | UNSIGNED | 4 | * | Reserved |
| 24 | (18) | CHARACTER | 4 | ORBWORD6 | ORB word 6 |
| 24 | (18) | UNSIGNED | 4 | * | Reserved |
| 28 | (1C) | CHARACTER | 4 | ORBWORD7 | ORB word 7 |
| 28 | (1C) | UNSIGNED | 4 | * | Reserved |
| Comment | | | | | |
| End of ORB with the ORB extension (ORBX is on) | | | | | |
| End of Comment | | | | | |
| 32 | (20) | CHARACTER | 0 | ORBEND | End of ORB with the ORB extension |

ORB Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| ORB | 0 | | ORBM | 4 | 02 |
| ORBA | 5 | 10 | ORBP | 5 | 40 |
| ORBBASIC | 0 | | ORBS | 4 | 08 |
| ORBBEND | C | | ORBSSPI | 5 | 08 |
| ORBC | 4 | 04 | ORBWORD3 | C | |
| ORBCPA | 8 | | ORBWORD4 | 10 | |
| ORBEND | 20 | | ORBWORD5 | 14 | |
| ORBEXT | C | | ORBWORD6 | 18 | |
| ORBF | 5 | 80 | ORBWORD7 | 1C | |
| ORBFLG0 | 4 | | ORBX | 7 | 01 |
| ORBFLG1 | 5 | | ORBY | 4 | 01 |
| ORBFLG2 | 7 | | | | |
| ORBI | 5 | 20 | | | |
| ORBIP | 0 | | | | |
| ORBIPA | 0 | | | | |
| ORBIPP | 0 | | | | |
| ORBKEY | 4 | F0 | | | |
| ORBL | 7 | 80 | | | |
| ORBLPM | 6 | | | | |

ORE Programming Interface information

Programming Interface information

ORE

End of Programming Interface information

ORE Heading Information

Common Name: OPERATOR REPLY ELEMENT DEFINITION
Macro ID: IHAORE
DSECT Name: OREF
Owning Component: COMMUNICATIONS TASK (SC1CK)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: 231
 Key: 0
 Residency: ABOVE 16 MB IN REAL STORAGE
Size: 96 BYTES
Created by: IEAVVWTO
Pointed to by: UCMRPYQ FIELD OF THE UCM DATA AREA
 ORELKP FIELD OF THE ORE DATA AREA (NEXT ORE)
 SSWTORE FIELD OF THE SSOB DATA AREA
Serialization: CMS AND LOCAL LOCKS
Function: THIS MACRO MAPS THE OPERATOR REPLY ELEMENT

ORE Map

| Offsets | | | | | |
|---------|------|------------|-----|--------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | OREF | |
| 0 | (0) | ADDRESS | 4 | ORELKP | - LINKAGE POINTER |
| 4 | (4) | CHARACTER | 2 | OREID | - REPLY IDENTIFICATION, X'0000' when reply id > 99 |
| 6 | (6) | BITSTRING | 1 | OREXA | - FLAGS |
| | | 1... | | OREFORGN | "BIT0" - WTOR WAS NOT ISSUED ON THIS SYSTEM |
| | | .1.. | | OREKEY0 | "BIT1" - WTOR ISSUED BY KEY 0 USER (BYPASS VALIDITY CHECK) |
| | | ...1. | | ORESWAP | "BIT2" - TASK SWAPPED OUT |
| | | ...1 | | ORESUSP | "BIT3" - PROCESSING TEMPORARILY SUSPENDED (OS/VS2) MDC001 |
| | | 1... | | OREINUSE | "BIT4" - WTOR NOT COMPLETE |
| | |1.. | | OREDMCMP | "BIT5" - DOM HAS COMPLETED |
| | |1.. | | OREDOMD | "BIT6" - HAVE PROCESSED A DOMC FOR THIS WTOR |
| | |1 | | ORERSV06 | "BIT7,,C'X'" - RESERVED |
| 7 | (7) | BITSTRING | 1 | OREXC | - BUFFER STATUS FLAGS |
| | | 1... | | OREBUFA | "BIT0" - BUFFER IS AVAILABLE |
| | | .1.. | | OREBUFB | "BIT1" - BUFFER IN USE |
| | | .1.. | | OREBUFC | "BIT2" - ORE IS TO BE DELETED, DO NOT PROCESS REPLY (OS/VS2) MDC002 |
| | | ...1 | | OREBUFD | "BIT3" - BUFFER OBTAINED DYNAMICALLY |
| | | 1... | | OREBUFE | "BIT4" - BUFFER SERVICED |
| | |1.. | | ORESAVD | "BIT5" - ORE/WQE SAVED IN RECOVERY, NO B23 |
| | |1.. | | ORERSV09 | "BIT6,,C'X'" - RESERVED |
| | |1 | | ORERSV10 | "BIT7,,C'X'" - RESERVED |
| 8 | (8) | ADDRESS | 4 | ORETCB (0) | - POINTER TO TCB |
| 8 | (8) | ADDRESS | 4 | ORETCBA | ADDRESS OF TCB |
| 12 | (C) | ADDRESS | 4 | OREWQE | - ADDRESS OF ASSOCIATED DUMMY WQE (USED BY THE SUBSYSTEM) |
| 16 | (10) | ADDRESS | 4 | ORERPYPY (0) | - POINTER TO REPLY BUFFER |
| 16 | (10) | ADDRESS | 4 | ORERPYPY | ADDRESS OF REPLY BUFFER |
| 20 | (14) | ADDRESS | 4 | OREECB (0) | - POINTER TO REQUESTOR'S REPLY ECB |
| 20 | (14) | ADDRESS | 4 | OREECBA | ADDRESS OF REQUESTOR'S REPLY ECB |
| 24 | (18) | SIGNED | 2 | OREASID | - ADDRESS SPACE IDENTIFIER (OS/VS2) MDC003 |
| 26 | (1A) | SIGNED | 2 | ORERSV11 | - RESERVED (OS/VS2) MDC004 |
| 28 | (1C) | ADDRESS | 4 | OREOPBUF | - POINTER TO OPERATOR REPLY BUFFER (OS/VS2) MDC005 |
| 32 | (20) | CHARACTER | 4 | ORECBID | CONTROL BLOCK ID 'ORE ' |
| 36 | (24) | SIGNED | 1 | OREVRSN | VERSION LEVEL |
| 36 | (24) | X'1' | 0 | ORESP13 | "1" ORE IS AT JBB1326 LEVEL |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|--------------|---|
| Dec | Hex | | | | |
| 36 | (24) | X'2' | 0 | ORESP22 | "2" ORE IS AT JBB2220 LEVEL |
| 36 | (24) | X'3' | 0 | ORESP313 | "3" ORE IS AT JBB3313 LEVEL |
| 36 | (24) | X'4' | 0 | ORESP410 | "4" ORE IS AT HBB4410 LEVEL |
| 36 | (24) | X'4' | 0 | OREVRID | "ORESP410" VERSION LEVEL VALUE |
| 37 | (25) | CHARACTER | 2 | ORERSV07 | RESERVED - WAS 16 ROUTING CODES |
| 39 | (27) | SIGNED | 1 | ORERCID | REPLY ISSUER CONSOLE ID |
| 40 | (28) | ADDRESS | 4 | ORERWQE | ADDRESS OF ASSOCIATED REAL WQE |
| 44 | (2C) | SIGNED | 4 | OREDOMID (0) | DOM ID |
| 44 | (2C) | SIGNED | 1 | ORESUSID | SYSTEM ID |
| 45 | (2D) | SIGNED | 3 | ORESEQN | 24-BIT OREDOMID |
| 48 | (30) | SIGNED | 1 | ORELNTH | - MAXIMUM LENGTH OF REPLY |
| 49 | (31) | CHARACTER | 3 | ORERSV12 | RESERVED BYTES |
| 52 | (34) | CHARACTER | 16 | ORERTCDE (0) | 16 BYTES OF ROUTING CODES |
| 52 | (34) | BITSTRING | 1 | ORERTA | FIRST BYTE OF ROUTING CODES |
| | | 1... | | ORERT001 | "X'80" MASTER CONSOLE ACTION |
| | | .1.. | | ORERT002 | "X'40" MASTER CONSOLE INFORMATION |
| | | ..1. | | ORERT003 | "X'20" TAPE POOL |
| | | ...1 | | ORERT004 | "X'10" DIRECT ACCESS POOL |
| | | 1... | | ORERT005 | "X'08" TAPE LIBRARY |
| | |1.. | | ORERT006 | "X'04" DISK LIBRARY |
| | |1. | | ORERT007 | "X'02" UNIT RECORD POOL |
| | |1 | | ORERT008 | "X'01" TELEPROCESSING CONTROL |
| 53 | (35) | BITSTRING | 1 | ORRTB | SECOND BYTE OF ROUTING CODES |
| | | 1... | | ORERT009 | "X'80" SYSTEM SECURITY |
| | | .1.. | | ORERT010 | "X'40" SYSTEM/ERROR MAINTENANCE |
| | | ..1. | | ORERT011 | "X'20" PROGRAMMER INFORMATION |
| | | ...1 | | ORERT012 | "X'10" EMULATOR INFORMATION |
| | | 1... | | ORERT013 | "X'08" USER ROUTING CODE |
| | |1.. | | ORERT014 | "X'04" USER ROUTING CODE |
| | |1. | | ORERT015 | "X'02" USER ROUTING CODE |
| | |1 | | ORERT016 | "X'01" USER ROUTING CODE |
| 54 | (36) | BITSTRING | 1 | ORRTC | THIRD BYTE OF ROUTING CODES |
| | | 1... | | ORERT017 | "X'80" USER ROUTING CODE |
| | | .1.. | | ORERT018 | "X'40" USER ROUTING CODE |
| | | ..1. | | ORERT019 | "X'20" USER ROUTING CODE |
| | | ...1 | | ORERT020 | "X'10" USER ROUTING CODE |
| | | 1... | | ORERT021 | "X'08" RESERVED FOR JES USAGE |
| | |1.. | | ORERT022 | "X'04" RESERVED FOR JES USAGE |
| | |1. | | ORERT023 | "X'02" RESERVED FOR JES USAGE |
| | |1 | | ORERT024 | "X'01" RESERVED FOR JES USAGE |
| 55 | (37) | BITSTRING | 1 | ORRTD | FOURTH BYTE OF ROUTING CODES |
| | | 1... | | ORERT025 | "X'80" RESERVED FOR JES USAGE |
| | | .1.. | | ORERT026 | "X'40" RESERVED FOR JES USAGE |
| | | ..1. | | ORERT027 | "X'20" RESERVED FOR JES USAGE |
| | | ...1 | | ORERT028 | "X'10" RESERVED FOR JES USAGE |
| | | 1... | | ORERT029 | "X'08" RESERVED |
| | |1.. | | ORERT030 | "X'04" RESERVED |
| | |1. | | ORERT031 | "X'02" RESERVED |
| | |1 | | ORERT032 | "X'01" RESERVED |
| 56 | (38) | BITSTRING | 1 | ORRTE | FIFTH BYTE OF ROUTING CODES |
| | | 1... | | ORERT033 | "X'80" RESERVED |
| | | .1.. | | ORERT034 | "X'40" RESERVED |
| | | ..1. | | ORERT035 | "X'20" RESERVED |
| | | ...1 | | ORERT036 | "X'10" RESERVED |
| | | 1... | | ORERT037 | "X'08" RESERVED |
| | |1.. | | ORERT038 | "X'04" RESERVED |
| | |1. | | ORERT039 | "X'02" RESERVED |
| | |1 | | ORERT040 | "X'01" RESERVED |
| 57 | (39) | BITSTRING | 1 | ORRTF | SIXTH BYTE OF ROUTING CODES |
| | | 1... | | ORERT041 | "X'80" JOB STATUS MESSAGE |
| | | .1.. | | ORERT042 | "X'40" GENERAL INFO. ABOUT JES2 OR JES3 |
| | | ..1. | | ORERT043 | "X'20" RESERVED FOR JES USAGE |
| | | ...1 | | ORERT044 | "X'10" RESERVED FOR JES USAGE |
| | | 1... | | ORERT045 | "X'08" RESERVED FOR JES USAGE |

ORE Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|-----------------------------------|
| Dec | Hex | | | | |
| 58 | (3A) |1.. | 1 | ORERT046 | "X'04'" RESERVED FOR JES USAGE |
| | |1. | | ORERT047 | "X'02'" RESERVED FOR JES USAGE |
| | |1 | | ORERT048 | "X'01'" RESERVED FOR JES USAGE |
| | | BITSTRING | | ORERTG | SEVENTH BYTE OF ROUTING CODES |
| | | 1... | | ORERT049 | "X'80'" RESERVED FOR JES USAGE |
| | | .1.. | | ORERT050 | "X'40'" RESERVED FOR JES USAGE |
| | | .1. | | ORERT051 | "X'20'" RESERVED FOR JES USAGE |
| | | ...1 | | ORERT052 | "X'10'" RESERVED FOR JES USAGE |
| | | 1... | | ORERT053 | "X'08'" RESERVED FOR JES USAGE |
| | |1.. | | ORERT054 | "X'04'" RESERVED FOR JES USAGE |
| | |1. | | ORERT055 | "X'02'" RESERVED FOR JES USAGE |
| | |1 | | ORERT056 | "X'01'" RESERVED FOR JES USAGE |
| 59 | (3B) | BITSTRING | 1 | ORERTH | EIGHTH BYTE OF ROUTING CODES |
| | | 1... | | ORERT057 | "X'80'" RESERVED FOR JES USAGE |
| | | .1.. | | ORERT058 | "X'40'" RESERVED FOR JES USAGE |
| | | .1. | | ORERT059 | "X'20'" RESERVED FOR JES USAGE |
| | | ...1 | | ORERT060 | "X'10'" RESERVED FOR JES USAGE |
| | | 1... | | ORERT061 | "X'08'" RESERVED FOR JES USAGE |
| | |1.. | | ORERT062 | "X'04'" RESERVED FOR JES USAGE |
| | |1. | | ORERT063 | "X'02'" RESERVED FOR JES USAGE |
| | |1 | | ORERT064 | "X'01'" RESERVED FOR JES USAGE |
| | | BITSTRING | | ORERTI | NINTH BYTE OF ROUTING CODES |
| | | 1... | | ORERT065 | "X'80'" PROCESSOR RELATED MESSAGE |
| | | .1.. | | ORERT066 | "X'40'" PROCESSOR RELATED MESSAGE |
| | | .1. | | ORERT067 | "X'20'" PROCESSOR RELATED MESSAGE |
| | | ...1 | | ORERT068 | "X'10'" PROCESSOR RELATED MESSAGE |
| 60 | (3C) | 1... | 1 | ORERT069 | "X'08'" PROCESSOR RELATED MESSAGE |
| | |1.. | | ORERT070 | "X'04'" PROCESSOR RELATED MESSAGE |
| | |1. | | ORERT071 | "X'02'" PROCESSOR RELATED MESSAGE |
| | |1 | | ORERT072 | "X'01'" PROCESSOR RELATED MESSAGE |
| | | BITSTRING | | ORERTJ | TENTH BYTE OF ROUTING CODES |
| | | 1... | | ORERT073 | "X'80'" PROCESSOR RELATED MESSAGE |
| | | .1.. | | ORERT074 | "X'40'" PROCESSOR RELATED MESSAGE |
| | | .1. | | ORERT075 | "X'20'" PROCESSOR RELATED MESSAGE |
| | | ...1 | | ORERT076 | "X'10'" PROCESSOR RELATED MESSAGE |
| | | 1... | | ORERT077 | "X'08'" PROCESSOR RELATED MESSAGE |
| | |1.. | | ORERT078 | "X'04'" PROCESSOR RELATED MESSAGE |
| | |1. | | ORERT079 | "X'02'" PROCESSOR RELATED MESSAGE |
| | |1 | | ORERT080 | "X'01'" PROCESSOR RELATED MESSAGE |
| 62 | (3E) | BITSTRING | 1 | ORERTK | ELEVENTH BYTE OF ROUTING CODES |
| | | 1... | | ORERT081 | "X'80'" PROCESSOR RELATED MESSAGE |
| | | .1.. | | ORERT082 | "X'40'" PROCESSOR RELATED MESSAGE |
| | | .1. | | ORERT083 | "X'20'" PROCESSOR RELATED MESSAGE |
| | | ...1 | | ORERT084 | "X'10'" PROCESSOR RELATED MESSAGE |
| | | 1... | | ORERT085 | "X'08'" PROCESSOR RELATED MESSAGE |
| | |1.. | | ORERT086 | "X'04'" PROCESSOR RELATED MESSAGE |
| | |1. | | ORERT087 | "X'02'" PROCESSOR RELATED MESSAGE |
| | |1 | | ORERT088 | "X'01'" PROCESSOR RELATED MESSAGE |
| | | BITSTRING | | ORERTL | TWELFTH BYTE OF ROUTING CODES |
| | | 1... | | ORERT089 | "X'80'" PROCESSOR RELATED MESSAGE |
| | | .1.. | | ORERT090 | "X'40'" PROCESSOR RELATED MESSAGE |
| | | .1. | | ORERT091 | "X'20'" PROCESSOR RELATED MESSAGE |
| | | ...1 | | ORERT092 | "X'10'" PROCESSOR RELATED MESSAGE |
| 63 | (3F) | 1... | 1 | ORERT093 | "X'08'" PROCESSOR RELATED MESSAGE |
| | |1.. | | ORERT094 | "X'04'" PROCESSOR RELATED MESSAGE |
| | |1. | | ORERT095 | "X'02'" PROCESSOR RELATED MESSAGE |
| | |1 | | ORERT096 | "X'01'" PROCESSOR RELATED MESSAGE |
| | | BITSTRING | | ORERTM | THIRTEENTH BYTE OF ROUTING CODES |
| | | 1... | | ORERT097 | "X'80'" DEVICE RELATED MESSAGE |
| | | .1.. | | ORERT098 | "X'40'" DEVICE RELATED MESSAGE |
| | | .1. | | ORERT099 | "X'20'" DEVICE RELATED MESSAGE |
| | | ...1 | | ORERT100 | "X'10'" DEVICE RELATED MESSAGE |
| | | 1... | | ORERT101 | "X'08'" DEVICE RELATED MESSAGE |
| | |1.. | | ORERT102 | "X'04'" DEVICE RELATED MESSAGE |
| 64 | (40) |1.. | 1 | ORERT102 | "X'04'" DEVICE RELATED MESSAGE |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|--------------|--|
| Dec | Hex | | | | |
| 65 | (41) |1. | 1 | ORERT103 | "X'02'" DEVICE RELATED MESSAGE |
| | |1 | | ORERT104 | "X'01'" DEVICE RELATED MESSAGE |
| | | BITSTRING | | ORERTN | FOURTEENTH BYTE OF ROUTING CODES |
| | | 1... | | ORERT105 | "X'80'" DEVICE RELATED MESSAGE |
| | | .1.. | | ORERT106 | "X'40'" DEVICE RELATED MESSAGE |
| | | ..1. | | ORERT107 | "X'20'" DEVICE RELATED MESSAGE |
| | | ...1 | | ORERT108 | "X'10'" DEVICE RELATED MESSAGE |
| | | 1... | | ORERT109 | "X'08'" DEVICE RELATED MESSAGE |
| | |1.. | | ORERT110 | "X'04'" DEVICE RELATED MESSAGE |
| | |1. | | ORERT111 | "X'02'" DEVICE RELATED MESSAGE |
| | |1 | | ORERT112 | "X'01'" DEVICE RELATED MESSAGE |
| 66 | (42) | BITSTRING | 1 | ORERTO | FIFTEENTH BYTE OF ROUTING CODES |
| | | 1... | | ORERT113 | "X'80'" DEVICE RELATED MESSAGE |
| | | .1.. | | ORERT114 | "X'40'" DEVICE RELATED MESSAGE |
| | | ..1. | | ORERT115 | "X'20'" DEVICE RELATED MESSAGE |
| | | ...1 | | ORERT116 | "X'10'" DEVICE RELATED MESSAGE |
| | | 1... | | ORERT117 | "X'08'" DEVICE RELATED MESSAGE |
| | |1.. | | ORERT118 | "X'04'" DEVICE RELATED MESSAGE |
| | |1. | | ORERT119 | "X'02'" DEVICE RELATED MESSAGE |
| | |1 | | ORERT120 | "X'01'" DEVICE RELATED MESSAGE |
| 67 | (43) | BITSTRING | 1 | ORERTP | SIXTEENTH BYTE OF ROUTING CODES |
| | | 1... | | ORERT121 | "X'80'" DEVICE RELATED MESSAGE |
| | | .1.. | | ORERT122 | "X'40'" DEVICE RELATED MESSAGE |
| | | ..1. | | ORERT123 | "X'20'" DEVICE RELATED MESSAGE |
| | | ...1 | | ORERT124 | "X'10'" DEVICE RELATED MESSAGE |
| | | 1... | | ORERT125 | "X'08'" DEVICE RELATED MESSAGE |
| | |1.. | | ORERT126 | "X'04'" DEVICE RELATED MESSAGE |
| | |1. | | ORERT127 | "X'02'" DEVICE RELATED MESSAGE |
| | |1 | | ORERT128 | "X'01'" DEVICE RELATED MESSAGE |
| 68 | (44) | CHARACTER | 8 | OREWTORU | USERID OF WTOR ISSUER |
| 76 | (4C) | ADDRESS | 4 | ORECNRA | ADDRESS OF 12 BYTE FIELD FOR REPLYING CONSOLE'S NAME/ID |
| 80 | (50) | CHARACTER | 12 | ORECNDAT (0) | REPLYING CONSOLE NAME AND ID |
| 80 | (50) | CHARACTER | 8 | ORECNNME | REPLY CONSOLE NAME |
| 88 | (58) | CHARACTER | 4 | ORECNID | REPLY CONSOLE ID |
| 92 | (5C) | SIGNED | 4 | ORERPIDB | Reply ID (binary representation) |
| 92 | (5C) | X'60' | 0 | OREL | *** - END OF OPERATOR REPLY ELEMENT (OS/VS2) |
| | | | | | MDC006 |
| 92 | (5C) | X'60' | 0 | ORESIZE | "OREL-OREF" - LENGTH OF OPERATOR REPLY ELEMENT (OS/VS2) MDC007 |

ORE Cross Reference

| Name | Hex Offset | Hex Value |
|----------|------------|-----------|
| OREASID | 18 | |
| OREBUFA | 7 | 80 |
| OREBUFB | 7 | 40 |
| OREBUFC | 7 | 20 |
| OREBUFD | 7 | 10 |
| OREBUFE | 7 | 8 |
| ORECBID | 20 | |
| ORECNDAT | 50 | |
| ORECNID | 58 | |
| ORECNNME | 50 | |
| ORECNRA | 4C | |
| OREDMCMP | 6 | 4 |
| OREDMD | 6 | 2 |
| OREDMDID | 2C | |
| OREECB | 14 | |
| OREECBA | 14 | |
| OREF | 0 | |
| OREFORGN | 6 | 80 |
| OREID | 4 | |

| Name | Hex Offset | Hex Value |
|----------|------------|-----------|
| OREINUSE | 6 | 8 |
| OREKEY0 | 6 | 40 |
| OREL | 5C | 60 |
| ORELKP | 0 | |
| ORELNTH | 30 | |
| OREOPBUF | 1C | |
| ORERCID | 27 | |
| ORERPIDB | 5C | |
| ORERPYP | 10 | |
| ORERPYPY | 10 | |
| ORERSV06 | 6 | 1 |
| ORERSV07 | 25 | |
| ORERSV09 | 7 | 2 |
| ORERSV10 | 7 | 1 |
| ORERSV11 | 1A | |
| ORERSV12 | 31 | |
| ORERTA | 34 | |
| ORERTB | 35 | |
| ORERTC | 36 | |

ORE Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------|---------------|--------------|----------|---------------|--------------|
| ORERTCDE | 34 | | ORERT052 | 3A | 10 |
| ORERTD | 37 | | ORERT053 | 3A | 8 |
| ORERTE | 38 | | ORERT054 | 3A | 4 |
| ORERTF | 39 | | ORERT055 | 3A | 2 |
| ORERTG | 3A | | ORERT056 | 3A | 1 |
| ORERTH | 3B | | ORERT057 | 3B | 80 |
| ORERTI | 3C | | ORERT058 | 3B | 40 |
| ORERTJ | 3D | | ORERT059 | 3B | 20 |
| ORERTK | 3E | | ORERT060 | 3B | 10 |
| ORERTL | 3F | | ORERT061 | 3B | 8 |
| ORERTM | 40 | | ORERT062 | 3B | 4 |
| ORERTN | 41 | | ORERT063 | 3B | 2 |
| ORERTO | 42 | | ORERT064 | 3B | 1 |
| ORERTP | 43 | | ORERT065 | 3C | 80 |
| ORERT001 | 34 | 80 | ORERT066 | 3C | 40 |
| ORERT002 | 34 | 40 | ORERT067 | 3C | 20 |
| ORERT003 | 34 | 20 | ORERT068 | 3C | 10 |
| ORERT004 | 34 | 10 | ORERT069 | 3C | 8 |
| ORERT005 | 34 | 8 | ORERT070 | 3C | 4 |
| ORERT006 | 34 | 4 | ORERT071 | 3C | 2 |
| ORERT007 | 34 | 2 | ORERT072 | 3C | 1 |
| ORERT008 | 34 | 1 | ORERT073 | 3D | 80 |
| ORERT009 | 35 | 80 | ORERT074 | 3D | 40 |
| ORERT010 | 35 | 40 | ORERT075 | 3D | 20 |
| ORERT011 | 35 | 20 | ORERT076 | 3D | 10 |
| ORERT012 | 35 | 10 | ORERT077 | 3D | 8 |
| ORERT013 | 35 | 8 | ORERT078 | 3D | 4 |
| ORERT014 | 35 | 4 | ORERT079 | 3D | 2 |
| ORERT015 | 35 | 2 | ORERT080 | 3D | 1 |
| ORERT016 | 35 | 1 | ORERT081 | 3E | 80 |
| ORERT017 | 36 | 80 | ORERT082 | 3E | 40 |
| ORERT018 | 36 | 40 | ORERT083 | 3E | 20 |
| ORERT019 | 36 | 20 | ORERT084 | 3E | 10 |
| ORERT020 | 36 | 10 | ORERT085 | 3E | 8 |
| ORERT021 | 36 | 8 | ORERT086 | 3E | 4 |
| ORERT022 | 36 | 4 | ORERT087 | 3E | 2 |
| ORERT023 | 36 | 2 | ORERT088 | 3E | 1 |
| ORERT024 | 36 | 1 | ORERT089 | 3F | 80 |
| ORERT025 | 37 | 80 | ORERT090 | 3F | 40 |
| ORERT026 | 37 | 40 | ORERT091 | 3F | 20 |
| ORERT027 | 37 | 20 | ORERT092 | 3F | 10 |
| ORERT028 | 37 | 10 | ORERT093 | 3F | 8 |
| ORERT029 | 37 | 8 | ORERT094 | 3F | 4 |
| ORERT030 | 37 | 4 | ORERT095 | 3F | 2 |
| ORERT031 | 37 | 2 | ORERT096 | 3F | 1 |
| ORERT032 | 37 | 1 | ORERT097 | 40 | 80 |
| ORERT033 | 38 | 80 | ORERT098 | 40 | 40 |
| ORERT034 | 38 | 40 | ORERT099 | 40 | 20 |
| ORERT035 | 38 | 20 | ORERT100 | 40 | 10 |
| ORERT036 | 38 | 10 | ORERT101 | 40 | 8 |
| ORERT037 | 38 | 8 | ORERT102 | 40 | 4 |
| ORERT038 | 38 | 4 | ORERT103 | 40 | 2 |
| ORERT039 | 38 | 2 | ORERT104 | 40 | 1 |
| ORERT040 | 38 | 1 | ORERT105 | 41 | 80 |
| ORERT041 | 39 | 80 | ORERT106 | 41 | 40 |
| ORERT042 | 39 | 40 | ORERT107 | 41 | 20 |
| ORERT043 | 39 | 20 | ORERT108 | 41 | 10 |
| ORERT044 | 39 | 10 | ORERT109 | 41 | 8 |
| ORERT045 | 39 | 8 | ORERT110 | 41 | 4 |
| ORERT046 | 39 | 4 | ORERT111 | 41 | 2 |
| ORERT047 | 39 | 2 | ORERT112 | 41 | 1 |
| ORERT048 | 39 | 1 | ORERT113 | 42 | 80 |
| ORERT049 | 3A | 80 | ORERT114 | 42 | 40 |
| ORERT050 | 3A | 40 | ORERT115 | 42 | 20 |
| ORERT051 | 3A | 20 | ORERT116 | 42 | 10 |

| Name | Hex Offset | Hex Value |
|----------|---------------|--------------|
| ORERT117 | 42 | 8 |
| ORERT118 | 42 | 4 |
| ORERT119 | 42 | 2 |
| ORERT120 | 42 | 1 |
| ORERT121 | 43 | 80 |
| ORERT122 | 43 | 40 |
| ORERT123 | 43 | 20 |
| ORERT124 | 43 | 10 |
| ORERT125 | 43 | 8 |
| ORERT126 | 43 | 4 |
| ORERT127 | 43 | 2 |
| ORERT128 | 43 | 1 |
| ORERWQE | 28 | |
| ORESAVD | 7 | 4 |
| ORESEQN | 2D | |
| ORESIZE | 5C | 60 |
| ORESP13 | 24 | 1 |
| ORESP22 | 24 | 2 |
| ORESP313 | 24 | 3 |
| ORESP410 | 24 | 4 |
| ORESUSP | 6 | 10 |
| ORESWAP | 6 | 20 |
| ORESYSID | 2C | |
| ORETCB | 8 | |
| ORETCBA | 8 | |
| OREVRID | 24 | 4 |
| OREVRSN | 24 | |
| OREWQE | C | |
| OREWTORU | 44 | |
| OREXA | 6 | |
| OREXC | 7 | |

OUCB Programming Interface information

Programming Interface information

OUCB

The following fields are **NOT** programming interface information:

- OUCBACT
- OUCBACTP
- OUCBASCB
- OUCBPAGP
- OUCBSUBN
- OUCBWMG

End of Programming Interface information

OUCB Heading Information

Common Name: RESOURCES MANAGER USER CONTROL BLOCK
Macro ID: IRAOUCB
DSECT Name: OUCB
Owning Component: SYSTEMS RESOURCE MANAGER (SC1CX)
Eye-Catcher ID: OUCB
 Offset: 0
 Length: 4
Storage Attributes: Main Storage: ESQA
 Subpool: 245
 Key: 0
 Residency: Above 16M line
Size: 1408 bytes
Created by: IRAEVMEM, IRARMERR
Pointed to by: ASCBOUCB field of the ASCB data area
 OUCBFWD field of the OUCB data area
 OUCBBCK field of the OUCB data area
 OUCBACT field of the OUCB data area
 RMQHFWD field of the RMQH data area
 RMQHBCK field of the RMQH data area
 RMCTAQHD, RMCTINQE, RMCTOTQE, RMCTWTQE,
 RMCTDFQF, RMCTDFQL,
 RMCTLSQE fields of the RMCT data area
Serialization: SRM lock, Compare and Swap (CS) instruction
Function: The OUCB describes the status of the associated memory (user) to the system resources manager. It contains resource usage information needed to decide when to swap-in the memory. The OUCB is positioned on transitional system resources manager chains to indicate actions to be taken for that memory.

OUCB Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|--------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | OUCB | , |
| 0 | (0) | CHARACTER | 256 | OUCB1BLK (0) | - FIRST 256 BYTES OF OUCB |
| 0 | (0) | CHARACTER | 128 | OUCBCHE1 (0) | - 1st cache line of OUCB |
| 0 | (0) | CHARACTER | 4 | OUCBNAME | - BLOCK IDENTIFICATION |
| 4 | (4) | ADDRESS | 4 | OUCBFWD | - SWAP CHAIN FORWARD POINTER |
| 8 | (8) | ADDRESS | 4 | OUCBBCK | - SWAP CHAIN BCKWARD POINTER |
| 12 | (C) | SIGNED | 4 | OUCBTMA | - TIME OF LAST ANALYSYS |
| 16 | (10) | BITSTRING | 1 | OUCBQFL | - SWAPPABILITY TRANSITION FLAGS |
| | | 1... | | OUCBG00 | "BIT0" - Address space is being swapped out or logically swapped |
| | | .1.. | | OUCBG0I | "BIT1" - TRANSITIONING INTO CORE |
| | | ..1. | | OUCBG0B | "BIT2" - TRANSITIONING BETWEEN STATES |
| | | ...1 | | OUCBQSFL | "BIT3" - QSCEFL RECURSION FLAG |
| | | 1... | | OUCBOFF | "BIT4" - REQUESTING ENTER WAIT STATE |
| | |1.. | | OUCBOUT | "BIT5" - REQUESTING ENTER OUT STATE |
| | |1. | | OUCBSW | "BIT6" - LOGICALLY SWAPPED |
| | |1 | | OUCBDLYB | "BIT7" - DELAYED BY RTO ON OUT QUEUE |
| 17 | (11) | BITSTRING | 1 | OUCBSFL | - SWAPOUT CONTINUATION FLAGS |
| | | 1... | | OUCBNSW | "BIT0" - NON-SWAPPABLE STATUS |
| | | .1.. | | OUCBCTI | "BIT1" - CTL INHIBITS QUIESCE |
| | | ..1. | | OUCBBIB | "BIT2" - BRING IN FOR CANCEL |
| | | ...1 | | OUCBINV | "BIT3" - =1 IF OUCB IS INVALID |

| Offsets | | | | | | |
|---|------|------------|-----|------------|--|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description | |
| 18 | (12) | 1... | 1 | OUCBNSWI | "BIT4" - PREVENT SWAP IN | |
| | |1.. | | OUCBPVL | "BIT5" - PRIVILEGED PROGRAM RUNNING | |
| | |1. | | OUCBENQ | "BIT6" - ENQ RESIDENT STATUS | |
| | |1 | | OUCBSCN | "BIT7" - SWAP CHAIN TERMINATION MARK | |
| | | 1... | | OUCBYFL | - USER TYPE FLAGS | |
| | | .1.. | | OUCBPSTE | "BIT0" - POST ERROR | |
| | | ..1. | | OUCBSTT | "BIT1" - START CREATED USER | |
| | | ...1 | | OUCBLOG | "BIT2" - LOGON CREATED USER | |
| | | | | OUCBMNT | "BIT3" - MOUNT CREATED USER | |
| Comment | | | | | | |
| EQU BIT4 - reserved - was post error | | | | | | |
| End of Comment | | | | | | |
| 19 | (13) |1.. | 1 | OUCBAXS | "BIT5" - AUX SHORTAGE FORCED SWAP | |
| | |1. | | OUCBDTA | "BIT6" - DATA ACCUMULATION IMPACTED | |
| | |1 | | OUCBFXS | "BIT7" - FIXED STORAGE FORCED SWAP | |
| | | 1... | | OUCBAFL | - ALGORITHM STATUS FLAGS | |
| | | .1.. | | OUCBIRSW | "BIT0" - REALSWAP IN PROGRESS | |
| | | ..1. | | OUCBAPG | "BIT1" - APG ALGORITHM APPLICABLE | |
| | | ...1 | | OUCBREPT | "BIT2" - RPGNS ARE PRESENT | |
| | | | | OUCBENQI | "BIT3" - OUCBENQ WAS ON AT SOME POINT DURING THE POLICY ADJUSTMENT INTERVAL (goal mode ONLY) | |
| 20 | (14) | 1... | 1 | OUCBJSR | "BIT4" - JOBSELECT RECEIVED | |
| | |1.. | | OUCBPOTR | "BIT5" - POST TRANSWAP ISSUERS | |
| | |1. | | OUCBNWT | "BIT6" - MSO DETECTED NONSWAPPABLE WAIT | |
| | |1 | | OUCBASW | "BIT7" - AUTHORIZED FOR DONTSWAP | |
| | | 1... | | OUCBTFL | - TRANSACTION STATUS FLAGS | |
| | | .1.. | | OUCBATR | "BIT0" - TRANSACTION IN EXISTENCE | |
| | | ..1. | | OUCBSTR | "BIT1" - TRANSACTION START PENDING | |
| | | ...1 | | OUCBNTR | "BIT2" - TRANSACTION STOP PENDING | |
| 21 | (15) | 1... | 1 | OUCBRTR | "BIT3" - TRANSACTION RESUME PENDING | |
| | |1.. | | OUCBPCH | "BIT4" - PERF GRP PERIOD CHANGE PENDING | |
| | |1. | | OUCBMAR | "BIT5" - ACTIVITY RECORDING SUBTRACT FLG | |
| | |1 | | OUCBINP | "BIT6" - INITIATOR ATTACH PENDING | |
| | | 1... | | OUCBINC | "BIT7" - INITIATOR ATTACH CURRENT | |
| | |1. | | OUCBEFL | - EVENT STATUS FALGS | |
| | | 1... | | OUCBLWT | "BIT0" - LONG WAIT STATUS | |
| | | | | | | |
| Comment | | | | | | |
| EQU BIT1 - reserved - was terminal wait | | | | | | |
| EQU BIT2 - reserved - was output wait | | | | | | |
| EQU BIT3 - reserved - was composite input | | | | | | |
| EQU BIT4 - reserved - was NQF | | | | | | |
| EQU BIT5 - reserved - was QUEST | | | | | | |
| End of Comment | | | | | | |
| 22 | (16) |1. | 1 | OUCBQSC | "BIT6" - QSCECMP EVENT PROCESSED | |
| | |1 | | OUCBMWT | "BIT7" - MSO DETECTED WAIT STATUS | |
| 23 | (17) | SIGNED | 1 | OUCBRSV3 | - RESERVED | |
| | | 1... | | OUCBUFL | - USER TYPE FLAGS | |
| | | .1.. | | OUCBJSFS | "BIT0" - JOB SELECT DELAYED | |
| | | ..1. | | OUCBJSAS | "BIT1" - JOB SELECT DELAYED | |
| | | ...1 | | OUCBRSWP | "BIT2" - REQSWAP IN PROGRESS. Is also set if a REALSWAP is in progress. Check also OUCBIRSW | |
| | | 1... | | OUCBTSWP | "BIT3" - TRANSWAP IN PROGRESS | |
| | |1. | | OUCBTSWC | "BIT4" - TRANSWAP COMPLETE | |
| | |1 | | OUCBSI | "BIT5" - STORAGE ISOL CONTROL ACTIVE | |
| 24 | (18) |1. | 1 | OUCBENQR | "BIT6" - OucbEnq on during RA interval | |
| | |1 | | OUCBSIFX | "BIT7" - FIXED TARGET WORKING SET SIZE FOR GRS STORAGE ISOLATION 2 | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
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| | | | | | | |

OUCB Map

| Offsets | | | | | | | | |
|-----------|----------|---|----------|--|---|---|----------|----------------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description | | | |
| 25 | (19) | 1... .. | 1 | OUCBEAS | "BIT0" - Early address space that has not been through InitAtt yet | | | |
| | | .1.. | | OUCBQSRV | "BIT1" - Space was managed as a server when it was quiesced | | | |
| | | ..1. | | OUCBRQSC | "BIT2" - QUIESCED BY RESET COMMAND | | | |
| | | ...1 | | OUCBFWA | "BIT3" - FAST WORKLOAD ACCEPTANCE APPL | | | |
| | | 1... | | OUCBTET | "BIT4" - TRANSWAP EXPIRATION TIMER | | | |
| | |1.. | | OUCBREDP | "BIT5" - Reduced preemption required | | | |
| | |1. | | OUCBPRF | "BIT6" - PREVIOUS RESOURCE FAILURE | | | |
| | |1 | | OUCBSTGI | "BIT7" - Address space has been recognized initializing storage | | | |
| | | 1... | | OUCBRFL | - MORE USER FLAGS | | | |
| | | ..1. | | OUCBCSFS | "BIT0" - SWAP IN FAIL DEFER BIT -USER ON WAIT QUEUE | | | |
| | | ..1. | | OUCBCSFM | "BIT1" - SWAP IN MESSAGE REQUIRED | | | |
| | | ..1. | | OUCBEASI | "BIT2" - EARLY ADDRESS SPACE | | | |
| | | ...1 | | OUCBHIDP | "BIT3" - EARLY A.S. NEEDS HIGH PRTY | | | |
| | | 1... | | OUCBBJOB | "BIT4" - Address space is running a batch job | | | |
| | |1.. | | OUCBSTFX | "BIT5" - FIXED BELOW FRAMES ARE STELABLE INDICATOR | | | |
| | |1. | | OUCBDFSW | "BIT6" - SWAP IN FAIL SPECIAL PROCESSING Real thresholds raised on behalf of the address space's primary working set. | | | |
| 26 | (1A) |1 | 1 | OUCBLLSW | "BIT7" - LAST SWAP WAS LOGICAL | | | |
| 27 | (1B) | BITSTRING | 1 | OUCBNDP | - NEW ASCB DISPATCHING PRIORITY | | | |
| 28 | (1C) | BITSTRING | 1 | OUCBTNDP | - NEW TS DISPATCHING PRIORITY | | | |
| | | BITSTRING | 1 | OUCBMFL | - MISCELLANEOUS FLAGS | | | |
| | | 1... | OUCBSBT | "BIT0" - STOLE BELOW THRESHOLD | | | | |
| | | .1.. | OUCBAFAP | "BIT1" - Auxiliary swap-in frame allocation is pending for primary working set (MCVCAPWS was raised) | | | | |
| | | ..1. | OUCBDFS2 | "BIT2" - THRES RAISED BY SEC WORKING SET SIZE | | | | |
| | | ...1 | OUCBMGSW | "BIT3" - SELECTED FOR MIG SWAP | | | | |
| | | 1... | OUCBDISC | "BIT4" - Frames are included in the logical swap discretionary count | | | | |
| | |1.. | OUCBASAP | "BIT5" - SEC WORKING SET ALLOC PENDING | | | | |
| | |1. | OUCBMPUR | "BIT6" - SELECTED FOR MIG PURGE | | | | |
| | |1 | OUCBACNT | "BIT7" - ACCOUNT NUMBER SPECIFIED ON JOB | | | | |
| 29 | (1D) | SIGNED | 1 | OUCBIAC | - INITIATOR ATTACH COUNT | | | |
| 30 | (1E) | SIGNED | 1 | OUCBRSV1 | - reserved | | | |
| 31 | (1F) | SIGNED | 1 | OUCBPGP | - CURRENT WPGP OFFSET IN WPGD goal mode: period number | | | |
| 32 | (20) | SIGNED | 4 | OUCBWMG (0) | WPGD OFFSET IN WPGD TABLE | | | |
| 32 | (20) | SIGNED | 2 | OUCBWSCI | goal mode: service class index | | | |
| 34 | (22) | SIGNED | 2 | OUCBWRCI | goal mode: report class index | | | |
| 36 | (24) | BITSTRING | 1 | OUCBMFL2 | - More miscellaneous flags. These are serialized by the SRM lock. | | | |
| | | 1... | | OUCBVFMG | "BIT0" - MESSAGE ISSUED ON BEHALF OF A.S. SWAPPED OUT DUE TO VECTOR WAIT | | | |
| | | .1.. | | OUCBMGIN | "BIT1" - SRM has requested that RSM inhibit migration of DREF pages | | | |
| | | ..1. | | OUCBAFPD | "BIT2" - Auxiliary swap-in frame allocation is pending for swap-in of DREF pages (MCVCAPWS was raised) | | | |
| | | ...1 | | OUCBDFDR | "BIT3" Real thresholds were raised on behalf of the DREF pages in the address space. | | | |
| | | 1... | | OUCBDFDE | "BIT4" Expanded storage thresholds were raised on behalf of the DREF pages in the address space. | | | |
| | |1.. | | OUCBMIGP | "BIT5" - MIGPURGE indicator ON- indicates this address space has been returned to RSM for this instance of MIGPURGE OFF- address space has not been returned to RSM added by @YA65372, moved by | | | |
| | |1. | | OUCBRPT1 | "BIT6" The first time of entry into RPT - Raise Processor Threshold | | | |
| | |1 | | OUCBERST | "BIT7" Eligible for restart flag | | | |
| | | 37 | | (25) | BITSTRING | 1 | OUCBMFL3 | - More miscellaneous flags |
| | | 1... | | OUCBAPPC | "BIT0" APPC transaction program | | | |
| ..1. | OUCBPMON | "BIT1" Indicate that this address space is being monitored | | | | | | |
| ..1. | OUCBVALV | "BIT2" Working set management recommendation value is valid | | | | | | |
| ...1 | OUCBOMVS | "BIT3" OpenMVS transaction program | | | | | | |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-------------|---|
| Dec | Hex | | | | |
| | | 1... | | OUCBTBMN | "BIT4" address space is to be monitored when enough data has been gathered about it |
| | |1.. | | OUCBSTTA | "BIT5" When ON, OUCBWKTm for this address space has been added to the system transaction time in the workload activity reporting table for the pg period. |
| | |1. | | OUCBGWRK | "BIT6" Initiator started using GETWORK interface. Distinction is important for workload activity reporting. |
| | |1 | | OUCBINIT | "BIT7" Started task is an initiator. |
| 38 | (26) | SIGNED | 2 | OUCBDMO | - OFFSET INTO DOMAIN TABLE, VALID ONLY IN compatibility mode |
| 40 | (28) | SIGNED | 1 | OUCBDMN | DOMAIN NUMBER |
| 41 | (29) | SIGNED | 1 | OUCBSRC | SWAP OUT REASON CODE |
| 42 | (2A) | SIGNED | 2 | OUCBSWC | - TRANSACTION SWAP COUNT |
| 44 | (2C) | ADDRESS | 4 | OUCBASCB | - ASCB ADDRESS |
| 48 | (30) | ADDRESS | 4 | OUCBPAGP | - Pointer to the APAG for this address space |
| 52 | (34) | SIGNED | 4 | OUCBTMW | - WLM INTERVAL START TIME |
| 56 | (38) | SIGNED | 4 | OUCBWMS | - INTERVAL SERVICE ACCUMULATOR |
| 60 | (3C) | SIGNED | 4 | OUCBCPU | - INTERVAL CPU SERVICE ACCUM |
| 64 | (40) | SIGNED | 4 | OUCBIOC | - INTERVAL I/O SERVICE ACCUM |
| 68 | (44) | SIGNED | 4 | OUCBMSO | - INTERVAL MSO SERVICE ACCUM |
| 72 | (48) | SIGNED | 4 | OUCBTMS | - TIME OF LAST SWAP ACTION |
| 76 | (4C) | SIGNED | 4 | OUCBTMO | - TRANSACTION START TIME |
| 80 | (50) | SIGNED | 4 | OUCBDRFR | Count of DREF pages in real storage. Updated from values returned from RSM IARXCNTF routine. |
| 84 | (54) | ADDRESS | 4 | OUCBACT | - ACTION QUEUE FORWARD POINTER |
| 88 | (58) | SIGNED | 4 | OUCBCSW (0) | - COMPARE AND SWAP FIELD NAME |
| 88 | (58) | BITSTRING | 1 | OUCBACN (2) | - DEFERRED ACTION FLAGS |
| 90 | (5A) | BITSTRING | 1 | OUCBCFL | - MULTIPROCESS CONDITION FLAGS |
| | | 1... | | OUCBRDY | "BIT0" - USERRDY EVENT RECEIVED |
| | | .1.. | | OUCBRSM | "BIT1" - RSM SERVICE OUTSTANDING |
| | | ..1. | | OUCBESSS | "BIT2" - SUSPENDED FOR SWAPOUT TO EXT |
| | | ...1 | | OUCBESSW | "BIT3" - HAS BEEN OR WILL BE SWAPPED TO EXTENDED |
| | | 1... | | OUCBASSW | "BIT4" - Has been or will be swapped to Auxiliary |
| | |1.. | | OUCBCSMF | "BIT5" - On = SMF needs to be notified that the address space is swapped in |
| | |1. | | OUCBSHBN | "BIT6" Server history block needed |
| | |1 | | OUCBHITR | "BIT7" HIT has run since UserRdy |
| 91 | (5B) | BITSTRING | 1 | OUCBCSBT | - Compare and swap bits |
| | | 1... | | OUCBTRM | "BIT0" - TERMINAL WAIT STATUS |
| | | .1.. | | OUCBOWT | "BIT1" - OUTPUT TERMINAL WAIT |
| | | ..1. | | OUCBCIM | "BIT2" - COMPOSITE INPUT MESSAGE |
| | | ...1 | | OUCBPSTR | "BIT3" - IF POST ERROR, RECOVER |
| | | 1... | | OUCBSTA | "BIT4" Swap turn around |
| | |1.. | | OUCBQSS | "BIT5" - QSCEST EVENT PROCESSED |
| | |1. | | OUCBOIW | "BIT6" - If on, indicates that a detected wait should be treated as an OpenMVS input wait |
| | |1 | | OUCBOOW | "BIT7" - If on, indicates that a OpenMVS output wait condition is present |
| 92 | (5C) | SIGNED | 4 | OUCBCMRV | - COMPOSITE RECOM VALUE |
| 92 | (5C) | X'5C' | 0 | OUCBWMR | "OUCBCMRV" WLM RECOMMENDATION VALUE |
| 96 | (60) | SIGNED | 4 | OUCBWMRL | Workload recommendation value saved at swap-out |
| 100 | (64) | SIGNED | 2 | OUCBVAL | - Working set management recommendation value |
| 102 | (66) | BITSTRING | 1 | OUCBPFL | - Processing flags |
| | | 1... | | OUCBFTDN | "BIT0" - On = Trimming has been completed for this address space |
| | | .1.. | | OUCBPSD | "BIT1" - On = This address space is a direct physical swap |
| | | ..1. | | OUCBDPSW | "BIT2" - On = Delayed Physical Swap |
| | | ...1 | | OUCBSRP | "BIT3" - On = Steal recently referenced pages pages on the next steal attempt from the Address Space |
| | | 1... | | OUCBPTDN | "BIT4" - On = Preliminary trimming has been completed for this address spac |
| 103 | (67) | SIGNED | 1 | OUCBACTL | Length of storage allocated to save accounting data. Note that this length can be larger than the account data actually saved. |
| 104 | (68) | SIGNED | 4 | OUCBERS (2) | - EXPANDED PAGE RESIDENCY TIME |

OUCB Map

| Offsets | | | | | |
|---------|------|------------|-----|-------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 104 | (68) | X'68' | 0 | OUCBERS1 | "OUCBERS" - HIGH WORD ES PAGE RES TIME |
| 104 | (68) | X'6C' | 0 | OUCBERS2 | "OUCBERS+4" - LOW WORD ES PAGE RES TIME |
| 112 | (70) | BITSTRING | 1 | OUCBDSPC | - CURRENT DISPATCHING CONTROL |
| | | 1... .. | | OUCBMTW | "BIT0" - CURRENT CONTROL IS MTW |
| | | ..1. | | OUCBTS | "BIT2" - CURRENT CTL IS TIME SLICING |
| | | ...1 | | OUCBTSC3 | "BIT3" - WORKAREA FOR TS |
| | | 1... | | OUCBTSC4 | "BIT4" - WORKAREA FOR TS |
| | |1.. | | OUCBTSC5 | "BIT5" - WORKAREA FOR TS |
| | |1. | | OUCBTSC6 | "BIT6" - WORKAREA FOR TS |
| | |1 | | OUCBTSC7 | "BIT7" - WORKAREA FOR TS |
| 113 | (71) | BITSTRING | 1 | OUCBDSPN | - NEW DISPATCHING CONTROL |
| | | 1... .. | | OUCBNMTW | "BIT0" - NEW CONTROL IS MTW |
| | | ..1. | | OUCBNTS | "BIT2" - NEW CONTROL IS TIME SLICING |
| | | ...1 | | OUCBTSN3 | "BIT3" - WORKAREA FOR TS |
| | | 1... | | OUCBTSN4 | "BIT4" - WORKAREA FOR TS |
| | |1.. | | OUCBTSN5 | "BIT5" - WORKAREA FOR TS |
| | |1. | | OUCBTSN6 | "BIT6" - WORKAREA FOR TS |
| | |1 | | OUCBTSN7 | "BIT7" - WORKAREA FOR TS |
| 114 | (72) | SIGNED | 2 | OUCBNTSP | - NUM OF ADD'L TRANSWAPS PENDING |
| 116 | (74) | SIGNED | 4 | OUCBPSS (2) | - CPU PAGE SECONDS |
| 116 | (74) | X'74' | 0 | OUCBPS1 | "OUCBPSS" - HIGH WORD PAGE SECONDS |
| 116 | (74) | X'78' | 0 | OUCBPS2 | "OUCBPSS+4" - LOW WORD PAGE SECONDS |
| 124 | (7C) | SIGNED | 4 | OUCBPST | - TIME OF LAST WORKING SET CHANGE |
| 128 | (80) | CHARACTER | 128 | OUCBCH2 (0) | 2nd cache line of OUCB |
| 128 | (80) | SIGNED | 4 | OUCBRCT | Interval RCT service accum |
| 132 | (84) | SIGNED | 4 | OUCBIIT | Interval I/O Interrupt service accumulator |
| 136 | (88) | SIGNED | 2 | OUCBNDS | - NUM OUTSTANDING DONTWAPS |
| 138 | (8A) | BITSTRING | 1 | OUCBNTSG | - NEW TIME SLICE GROUP NUMBER |
| 139 | (8B) | SIGNED | 1 | OUCBRV2 | - reserved |
| 140 | (8C) | SIGNED | 4 | OUCBTME | - LAST RESPONSE TIME |
| 144 | (90) | SIGNED | 4 | OUCBTML | - TIME OF LAST TERMWAIT |
| 148 | (94) | SIGNED | 4 | OUCBDWMS | - INTVL DMN SVCE ACCUM |
| 152 | (98) | SIGNED | 4 | OUCBSRB | - INTERVAL SRB SERVICE ACCUM |
| 156 | (9C) | SIGNED | 4 | OUCBTWSS | - TARGET WORKING SET SIZE |
| 160 | (A0) | SIGNED | 4 | OUCBTMP | - PERF GRP PERIOD START TIME |
| 164 | (A4) | SIGNED | 4 | OUCBDLYT | - RTO DELAY END TIME |
| 168 | (A8) | SIGNED | 4 | OUCBHST | Interval Hiperspace service accumulator |
| 172 | (AC) | SIGNED | 4 | OUCBCFS | Accumulated sample of RAXFMCT for determing avg central storage |
| 176 | (B0) | CHARACTER | 4 | OUCBSUBN | - Subsystem name used by SMF and for workload activity reporting |
| 180 | (B4) | SIGNED | 2 | OUCBRPG | - RESET PERFORMANCE GROUP NUMBER |
| 182 | (B6) | SIGNED | 2 | OUCBSPG | - SPECIFIED PERFORMANCE GROUP NUMBER |
| 182 | (B6) | X'B8' | 0 | OUCBFPGO | *** FPG OUTPUT AREA |
| 184 | (B8) | SIGNED | 2 | OUCBNPG | - NEW PERFORMANCE GROUP NUMBER |
| 186 | (BA) | SIGNED | 2 | OUCBSRPG | - SUBSYSTEM RPGN |
| 188 | (BC) | SIGNED | 2 | OUCBNRPG | - TRXNAME RPGN |
| 190 | (BE) | SIGNED | 2 | OUCBURPG | - USERID RPGN |
| 192 | (C0) | SIGNED | 2 | OUCBCRPG | - TRXCLASS RPGN |
| 194 | (C2) | SIGNED | 2 | OUCBARPG | - ACCOUNT NUMBER RPGN |
| 196 | (C4) | SIGNED | 4 | OUCBDRFP | Count of DREF pages in processor storage. Updated from values returned from RSM IARXCNTF routine. |
| 200 | (C8) | CHARACTER | 8 | OUCBTRXN | - TRANSACTION NAME |
| 208 | (D0) | CHARACTER | 8 | OUCBUSRD | - USERID |
| 216 | (D8) | CHARACTER | 8 | OUCBCLS | - TRANSACTION CLASS NAME |
| 224 | (E0) | SIGNED | 4 | OUCBTRS | accumulated transaction service |
| 228 | (E4) | SIGNED | 4 | OUCBTRR | transaction residency time accumulator |
| 232 | (E8) | SIGNED | 4 | OUCBACTP | pointer to accounting info (mapped by IRAACNT). OUCBACNT bit should be interrogated before referencing the accounting data. |
| 236 | (EC) | SIGNED | 4 | OUCBSWSS | - SEC WORKING SET SIZE |
| 240 | (F0) | SIGNED | 4 | OUCBPSUM | BASE VALUE FOR PAGEIN COUNT |
| 244 | (F4) | SIGNED | 2 | OUCBFIXB | CNT OF BELOW FRAMES NEEDED FOR FIXED/LSQA PAGES |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|-------------|---|
| Dec | Hex | | | | |
| 246 | (F6) | BITSTRING | 1 | OUCBAPLV | APPC optimization level |
| 247 | (F7) | BITSTRING | 1 | OUCBESAP | individual expanded storage access policy, goal mode only |
| 248 | (F8) | SIGNED | 4 | OUCBRST (2) | - PAGE RESIDENCY TIME IN 1024 MICROSECOND UNITS |
| 248 | (F8) | X'F8' | 0 | OUCBRST1 | "OUCBRST" - HIGH WORD PG RES SEC |
| 248 | (F8) | X'FC' | 0 | OUCBRST2 | "OUCBRST+4" - LOW WORD PG RES SEC |
| 256 | (100) | BITSTRING | 128 | | OUCB line 3, mapped by IRAOUCBX |
| 384 | (180) | BITSTRING | 128 | | OUCB line 4, mapped by IRAOUCBX |
| 512 | (200) | BITSTRING | 128 | | OUCB line 5, mapped by IRAOUCBX |
| 640 | (280) | BITSTRING | 128 | | OUCB line 6, mapped by IRAOUCBX |
| 768 | (300) | BITSTRING | 128 | | OUCB line 7, mapped by IRAOUCBX |
| 896 | (380) | BITSTRING | 128 | | OUCB line 8, mapped by IRAOUCBX |
| 1024 | (400) | BITSTRING | 128 | | OUCB line 9, mapped by IRAOUCBX |
| 1152 | (480) | BITSTRING | 128 | | OUCB line 10, mapped by IRAOUCBX |
| 1280 | (500) | BITSTRING | 128 | | OUCB line 11, mapped by IRAOUCBX |
| 1408 | (580) | DBL WORD | 8 | OUCBEND (0) | - END OF OUCB |
| 1408 | (580) | X'580' | 0 | OUCBLEN | "OUCBEND-OUCB" - LENGTH OF OUCB |
| 186 | (BA) | SIGNED | 2 | OUCBRPGN | RPGN ARRAY |

OUCB Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| OUCB | 0 | | OUCBDLYB | 10 | 1 |
| OUCBACN | 58 | 0 | OUCBDLYT | A4 | 0 |
| OUCBACNT | 1C | 1 | OUCBDMN | 28 | 0 |
| OUCBACT | 54 | | OUCBDMO | 26 | 0 |
| OUCBACTL | 67 | 0 | OUCBDPSW | 66 | 20 |
| OUCBACTP | E8 | 0 | OUCBDRFP | C4 | 0 |
| OUCBAFAP | 1C | 40 | OUCBDRFR | 50 | 0 |
| OUCBAFL | 13 | 0 | OUCBDSPC | 70 | 0 |
| OUCBAFPD | 24 | 20 | OUCBDSPN | 71 | 0 |
| OUCBAPG | 13 | 40 | OUCBDTA | 12 | 2 |
| OUCBAPLV | F6 | 0 | OUCBDWMS | 94 | 0 |
| OUCBAPPC | 25 | 80 | OUCBEAS | 18 | 80 |
| OUCBARPG | C2 | 0 | OUCBEASI | 19 | 20 |
| OUCBASAP | 1C | 4 | OUCBEFL | 15 | 0 |
| OUCBASCB | 2C | | OUCBEND | 580 | |
| OUCBASSW | 5A | 8 | OUCBENQ | 11 | 2 |
| OUCBASW | 13 | 1 | OUCBENQI | 13 | 10 |
| OUCBATR | 14 | 80 | OUCBENQR | 17 | 2 |
| OUCBAXS | 12 | 4 | OUCBERS | 68 | 0 |
| OUCBBCK | 8 | | OUCBERST | 24 | 1 |
| OUCBBIB | 11 | 20 | OUCBERS1 | 68 | 68 |
| OUCBBJOB | 19 | 8 | OUCBERS2 | 68 | 6C |
| OUCBCFL | 5A | 0 | OUCBESAP | F7 | 0 |
| OUCBCFS | AC | 0 | OUCBESSS | 5A | 20 |
| OUCBCHE1 | 0 | | OUCBESSW | 5A | 10 |
| OUCBCHE2 | 80 | | OUCBFIXB | F4 | 0 |
| OUCBCIM | 5B | 20 | OUCBFPGO | B6 | B8 |
| OUCBCLS | D8 | 40404040 | OUCBFTDN | 66 | 80 |
| OUCBCMRV | 5C | 0 | OUCBFWA | 18 | 10 |
| OUCBCPU | 3C | 0 | OUCBFWD | 4 | |
| OUCBCRPG | C0 | 0 | OUCBFXS | 12 | 1 |
| OUCBCSBT | 5B | 0 | OUCBGOB | 10 | 20 |
| OUCBCSFM | 19 | 40 | OUCBGOI | 10 | 40 |
| OUCBCSFS | 19 | 80 | OUCBGOO | 10 | 80 |
| OUCBCSMF | 5A | 4 | OUCBGWRK | 25 | 2 |
| OUCBCSW | 58 | | OUCBHIDP | 19 | 10 |
| OUCBCTI | 11 | 40 | OUCBHITR | 5A | 1 |
| OUCBDFDE | 24 | 8 | OUCBHST | A8 | 0 |
| OUCBDFDR | 24 | 10 | OUCBIAC | 1D | 0 |
| OUCBDFSW | 19 | 2 | OUCBIIT | 84 | 0 |
| OUCBDFS2 | 1C | 20 | OUCBINC | 14 | 1 |
| OUCBDISC | 1C | 8 | OUCBINIT | 25 | 1 |

OUCB Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| OUCBINP | 14 | 2 | OUCBQSS | 5B | 4 |
| OUCBINV | 11 | 10 | OUCBRCT | 80 | 0 |
| OUCBIOC | 40 | 0 | OUCBRDY | 5A | 80 |
| OUCBIRSW | 13 | 80 | OUCBREDP | 18 | 4 |
| OUCBJSAS | 17 | 40 | OUCBREPT | 13 | 20 |
| OUCBJSFS | 17 | 80 | OUCBRFL | 19 | 0 |
| OUCBJSR | 13 | 8 | OUCBRPG | B4 | 0 |
| OUCBLEN | 580 | 580 | OUCBRPGN | BA | |
| OUCBLFL | 18 | 0 | OUCBRPT1 | 24 | 2 |
| OUCBLLSW | 19 | 1 | OUCBRQSC | 18 | 20 |
| OUCBLOG | 12 | 20 | OUCBRSM | 5A | 40 |
| OUCBLSW | 10 | 2 | OUCBRST | F8 | 0 |
| OUCBLWT | 15 | 80 | OUCBRST1 | F8 | F8 |
| OUCBMAR | 14 | 4 | OUCBRST2 | F8 | FC |
| OUCBMFL | 1C | 0 | OUCBRSV1 | 1E | 0 |
| OUCBMFL2 | 24 | 0 | OUCBRSV2 | 8B | 0 |
| OUCBMFL3 | 25 | 0 | OUCBRSV3 | 16 | 0 |
| OUCBMGIN | 24 | 40 | OUCBRSWP | 17 | 20 |
| OUCBMGSW | 1C | 10 | OUCBRTR | 14 | 10 |
| OUCBMIGP | 24 | 4 | OUCBSBT | 1C | 80 |
| OUCBMNT | 12 | 10 | OUCBSCN | 11 | 1 |
| OUCBMPUR | 1C | 2 | OUCBSFL | 11 | 94 |
| OUCBMSO | 44 | 0 | OUCBSHBN | 5A | 2 |
| OUCBMTW | 70 | 80 | OUCBSI | 17 | 4 |
| OUCBMWT | 15 | 1 | OUCBSIFX | 17 | 1 |
| OUCBNAME | 0 | D6E4C3C2 | OUCBSPG | B6 | 0 |
| OUCBNDP | 1A | FF | OUCBSRB | 98 | 0 |
| OUCBNDS | 88 | 1 | OUCBSRC | 29 | 0 |
| OUCBNMTW | 71 | 80 | OUCBSRP | 66 | 10 |
| OUCBNPG | B8 | 0 | OUCBSRPG | BA | 0 |
| OUCBNRPG | BC | 0 | OUCBSTA | 5B | 8 |
| OUCBNSW | 11 | 80 | OUCBSTFX | 19 | 4 |
| OUCBNSWI | 11 | 8 | OUCBSTGI | 18 | 1 |
| OUCBNTR | 14 | 20 | OUCBSTR | 14 | 40 |
| OUCBNTS | 71 | 20 | OUCBSTT | 12 | 40 |
| OUCBNTSG | 8A | FF | OUCBSTTA | 25 | 4 |
| OUCBNTSP | 72 | 0 | OUCBSUBN | B0 | 40404040 |
| OUCBNWT | 13 | 2 | OUCBSWC | 2A | 0 |
| OUCBOFF | 10 | 8 | OUCBSWSS | EC | 0 |
| OUCBOIW | 5B | 2 | OUCBTBMN | 25 | 8 |
| OUCBOMVS | 25 | 10 | OUCBTET | 18 | 8 |
| OUCBOOW | 5B | 1 | OUCBTFL | 14 | 0 |
| OUCBOUT | 10 | 4 | OUCBTMA | C | 0 |
| OUCBOWT | 5B | 40 | OUCBTME | 8C | 0 |
| OUCBPAGP | 30 | | OUCBTML | 90 | 0 |
| OUCBPCH | 14 | 8 | OUCBTMO | 4C | 0 |
| OUCBPFL | 66 | 0 | OUCBTMP | A0 | 0 |
| OUCBPGP | 1F | C | OUCBTMS | 48 | 0 |
| OUCBPMON | 25 | 40 | OUCBTMW | 34 | 0 |
| OUCBPOTR | 13 | 4 | OUCBTNDP | 1B | FF |
| OUCBPRF | 18 | 2 | OUCBTRM | 5B | 80 |
| OUCBPSD | 66 | 40 | OUCBTRR | E4 | 0 |
| OUCBPSS | 74 | 0 | OUCBTRS | E0 | 0 |
| OUCBPST | 7C | 0 | OUCBTRXN | C8 | 40404040 |
| OUCBPSTE | 12 | 80 | OUCBTS | 70 | 20 |
| OUCBPSTR | 5B | 10 | OUCBTSC3 | 70 | 10 |
| OUCBPSUM | F0 | 0 | OUCBTSC4 | 70 | 8 |
| OUCBPS1 | 74 | 74 | OUCBTSC5 | 70 | 4 |
| OUCBPS2 | 74 | 78 | OUCBTSC6 | 70 | 2 |
| OUCBPTDN | 66 | 8 | OUCBTSC7 | 70 | 1 |
| OUCBPVL | 11 | 4 | OUCBTSN3 | 71 | 10 |
| OUCBQFL | 10 | 20 | OUCBTSN4 | 71 | 8 |
| OUCBQSC | 15 | 2 | OUCBTSN5 | 71 | 4 |
| OUCBQSFL | 10 | 10 | OUCBTSN6 | 71 | 2 |
| OUCBQSRV | 18 | 40 | OUCBTSN7 | 71 | 1 |

| Name | Hex Offset | Hex Value |
|----------|---------------|--------------|
| OUCBTSWC | 17 | 8 |
| OUCBTSWP | 17 | 10 |
| OUCBTWSS | 9C | 0 |
| OUCBUFL | 17 | 0 |
| OUCBURPG | BE | 0 |
| OUCBUSRD | D0 | 40404040 |
| OUCBVAL | 64 | 0 |
| OUCBVALV | 25 | 20 |
| OUCBVFMG | 24 | 80 |
| OUCBWMG | 20 | |
| OUCBWMR | 5C | 5C |
| OUCBWMRL | 60 | 0 |
| OUCBWMS | 38 | 0 |
| OUCBWRCI | 22 | 0 |
| OUCBWSCI | 20 | 0 |
| OUCBYFL | 12 | 0 |
| OUCB1BLK | 0 | |

OUSB Heading Information

Common Name: RESOURCES MANAGER USER SWAPPABLE BLOCK
Macro ID: IHAOUSB
DSECT Name: OUSB
Owning Component: System Resources Manager (SC1CX)
Eye-Catcher ID: OUSB
 Offset: 0
 Length: 4
Storage Attributes: Main Storage: YES
 Virtual Storage: Address space
 Auxiliary Storage: NO
 Subpool: 255
 Key: 0
 Data Space: No
 Residency: Above 16M line
Size: 304
Created by: IEAVEMIN
Pointed to by: ASXBUSB field of the ASXB data area
Serialization: SRM lock
Function: THE OUSB IS USED BY THE SYSTEM RESOURCES MANAGER TO SAVE INFORMATION FROM THE OUXB, SO THAT THE OUXB MAY BE FREED WHEN THE DESCRIBED ADDRESS SPACE IS SWAPPED OUT. THE OUSB RESIDES IN LSQA, AND IS SWAPPED OUT ALONG WITH THE ADDRESS SPACE. THE OUSB ALSO SERVES TO ACCUMULATE USER PAGING STATISTICS FOR THE SYSTEM RESOURCES MANAGER.

OUSB Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 304 | OUSB | |
| 0 | (0) | CHARACTER | 4 | OUSBNAME | BLOCK IDENTIFICATION - 'OUSB' |
| 4 | (4) | CHARACTER | 56 | OUSBPAGE | OUSB PAGING INFO |
| 4 | (4) | SIGNED | 4 | OUSBPIN | SESSION PAGE-IN ACCUMULATOR |
| 8 | (8) | SIGNED | 4 | OUSBPOUT | SESSION PAGE-OUT ACCUMULATOR |
| 12 | (C) | SIGNED | 4 | OUSBCRMS | CACHE READ MISS ACCUMULATOR |
| 16 | (10) | SIGNED | 4 | OUSBVAMI | SESS VAM PAGE-IN ACCUMULATOR |
| 20 | (14) | SIGNED | 4 | OUSBVAMO | SESS VAM PAGE-OUT ACCUMULATOR |
| 24 | (18) | SIGNED | 4 | OUSBVAMR | SESS VAM RECLAIM ACCUMULATOR |
| 28 | (1C) | CHARACTER | 12 | OUSBWAP | SWAPPING INFO FOR SMF |
| 28 | (1C) | SIGNED | 4 | OUSBSPIN | SWAPPING PAGE-IN ACCUMULATOR |
| 32 | (20) | SIGNED | 4 | OUSBSPOT | SWAPPING PAGE-OUT ACCUMULATOR |
| 36 | (24) | SIGNED | 4 | OUSBWCT | SESSION SWAP CNT ACCUMULATOR |
| 40 | (28) | SIGNED | 4 | OUSBCAPI | COMMON PAGE-IN ACCUM |
| 44 | (2C) | SIGNED | 4 | OUSBHSPIN | HIPERSPACE PAGE-IN COUNT |
| 48 | (30) | SIGNED | 4 | OUSBSTCT | PAGES STOLEN ACCUM |
| 52 | (34) | SIGNED | 4 | OUSBLPAI | LPA PAGE IN |
| 56 | (38) | SIGNED | 4 | OUSBHSPOT | HIPERSPACE PAGE-OUT COUNT |
| 60 | (3C) | CHARACTER | 146 | OUSBSAVE | OUSBFLDS SAVEAREA |
| 206 | (CE) | SIGNED | 2 | OUSB80 | RESERVED |
| 208 | (D0) | CHARACTER | 48 | OUSBPAG2 | more paging info for reporting purposes |
| 208 | (D0) | SIGNED | 4 | OUSBPIN | interval block page-in accumulator |
| 212 | (D4) | SIGNED | 4 | OUSBPNE | interval block page-in from ES accumulator |
| 216 | (D8) | SIGNED | 4 | OUSBPINE | interval page-in from ES accumulator |
| 220 | (DC) | SIGNED | 4 | OUSBPOT | interval block page-out accumulator |

OUSB Cross Reference

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|------------|---|
| Dec | Hex | | | | |
| 224 | (E0) | SIGNED | 4 | OUSBBPTE | interval block page-out to ES accumulator |
| 228 | (E4) | SIGNED | 4 | OUSBPOTE | interval page-out to ES accumulator |
| 232 | (E8) | SIGNED | 4 | OUSBBKIA | interval blocks in aux accumulator |
| 236 | (EC) | SIGNED | 4 | OUSBBKIE | interval blocks in ES accumulator |
| 240 | (F0) | SIGNED | 4 | OUSBBKOA | interval blocks out aux accumulator |
| 244 | (F4) | SIGNED | 4 | OUSBBKOE | interval blocks out ES accumulator |
| 248 | (F8) | SIGNED | 4 | OUSBSPPI | interval shared page-ins from aux accumulator |
| 252 | (FC) | SIGNED | 4 | OUSBSPEI | interval shared page-ins from ES accumulator |
| 256 | (100) | CHARACTER | 48 | OUSBSAV2 | more fields need to be saved across swaps |
| 256 | (100) | BITSTRING | 8 | OUSBRCT | Base RCT time |
| 264 | (108) | BITSTRING | 8 | OUSBPRSS | Base preemptable/client SRB time for WM1 service calculation |
| 272 | (110) | UNSIGNED | 4 | OUSBWAIT | Accumulated I/O wait time for the address space from CMB. Includes pending time and control unit queue time. In 128 microsecond units |
| 276 | (114) | UNSIGNED | 4 | OUSBCON | Accumulated I/O connect time for the address space from CMB. In 128 microsecond units |
| 280 | (118) | UNSIGNED | 4 | OUSBIOSC | Count of samples included in OUSBWAIT, OUSBCON, OUSBDISC |
| 284 | (11C) | UNSIGNED | 4 | OUSBDISC | Accumulated I/O disconnect time for the address space from CMB. In 128 microsecond units. |
| 288 | (120) | UNSIGNED | 4 | OUSBFCON | Accumulated I/O FICON connect time for the address space from CMB. In 128 microsecond units |
| 292 | (124) | UNSIGNED | 4 | OUSBFDIS | Accumulated I/O FICON disconnect time for the address space from the CMB. In 128 microsecond units |
| 296 | (128) | UNSIGNED | 4 | OUSBFMNO | FICON magic number - for every I/O interrupt from a device attached to a FICON native CHPID, IOS will add one millisecond to this field. |
| 300 | (12C) | UNSIGNED | 4 | OUSBFWAIT | Accumulated I/O FICON wait time for the address space from CMB. Includes pending time and control unit queue time. In 128 microsecond units |
| 304 | (130) | CHARACTER | 0 | OUSBEND | END OF OUSB End of this block |

OUSB Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|-----------|------------|-----------|----------|------------|-----------|
| OUSB | 0 | | OUSBPOUT | 8 | |
| OUSBBKIA | E8 | | OUSBPRSS | 108 | |
| OUSBBKIE | EC | | OUSBRCT | 100 | |
| OUSBBKOA | F0 | | OUSBR80 | CE | |
| OUSBBKOE | F4 | | OUSBSAVE | 3C | |
| OUSBBPIN | D0 | | OUSBSAV2 | 100 | |
| OUSBBPNE | D4 | | OUSBSPEI | FC | |
| OUSBBPOT | DC | | OUSBSPIN | 1C | |
| OUSBBPTE | E0 | | OUSBSPOT | 20 | |
| OUSBCAPI | 28 | | OUSBSPPI | F8 | |
| OUSBCON | 114 | | OUSBSTCT | 30 | |
| OUSBCRMS | C | | OUSBSWAP | 1C | |
| OUSBDISC | 11C | | OUSBSWCT | 24 | |
| OUSBEND | 130 | | OUSBVAMI | 10 | |
| OUSBFCON | 120 | | OUSBVAMO | 14 | |
| OUSBFDIS | 124 | | OUSBVAMR | 18 | |
| OUSBFMNO | 128 | | OUSBWAIT | 110 | |
| OUSBFWAIT | 12C | | | | |
| OUSBHSPi | 2C | | | | |
| OUSBHSPo | 38 | | | | |
| OUSBIOSC | 118 | | | | |
| OUSBLPAI | 34 | | | | |
| OUSBNAME | 0 | | | | |
| OUSBPAGE | 4 | | | | |
| OUSBPAG2 | D0 | | | | |
| OUSBPIN | 4 | | | | |
| OUSBPINE | D8 | | | | |
| OUSBPOTE | E4 | | | | |

OUXB Programming Interface information

| | | |
|-------------|--|--|
| | Programming Interface information | |
| <u>OUXB</u> | | |
| | End of Programming Interface information | |

OUXB Heading Information

Common Name: RESOURCES MANAGER USER EXTENSION BLOCK
Macro ID: IHAOUBX
DSECT Name: OUXB
Owning Component: System Resources Manager (SC1CX)
Eye-Catcher ID: OUXB
 Offset: 0
 Length: 4
Storage Attributes: Main Storage: YES
 Virtual Storage: Common
 Auxiliary Storage: No
 Subpool: 245
 Key: 0
 Data Space: no
 Residency: Above 16M line
Size: 416 bytes
Created by: IRAEVMEM
Pointed to by: ASCBOUBX field of the ASCB data area
Serialization: SRM lock
Function: THE OUXB CONTAINS SUCH SYSTEM RESOURCES MANAGER DATA ABOUT AN ADDRESS SPACE AS IS NOT REQUIRED BY THE SYSTEM RESOURCES MANAGER WHILE THAT ADDRESS SPACE IS SWAPPED OUT. THE STORAGE FOR THE OUXB IS FREED DURING THE SWAPPED-OUT PERIOD. THE OUXB RESIDES IN SQA, SO IT MAY BE REFERENCED WITHOUT HAVING ADDRESSABILITY TO THE DESCRIBED ADDRESS SPACE.

OUXB Map

| Offsets | | | | | |
|---------|------|------------|-----|--------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | OUXB | |
| 0 | (0) | CHARACTER | 256 | OUXB1BLK (0) | - FIRST 256 BYTES OF OUXB |
| 0 | (0) | CHARACTER | 4 | OUXBNAME | - BLOCK IDENTIFICATION |
| 4 | (4) | SIGNED | 4 | OUXBPSET | - MS6 BASE PREEMPTABLE/CLIENT SRB EXECUTION TIME |
| 8 | (8) | SIGNED | 4 | OUXBMET | - MS0 BASE CPU MEASUREMENT |
| 12 | (C) | ADDRESS | 4 | OUXBRSW | - ADDR OF ECB PASSED BY REQSWAP |
| 12 | (C) | X'10' | 0 | OUXBPAGE | *** PAGING INFO REPORTED BY SMF |
| 16 | (10) | SIGNED | 4 | OUXBPIN | - INTERVAL PAGE-IN ACCUMULATOR |
| 20 | (14) | SIGNED | 4 | OUXBPOUT | - INTERVAL PAGE-OUT ACCUMULATOR |
| 24 | (18) | SIGNED | 4 | OUXBCRMS | - CACHE READ MISS ACCUMULATOR |
| 28 | (1C) | SIGNED | 4 | OUXBVAMI | - INTERVAL VAM PAGE-IN ACCUMULATR |
| 32 | (20) | SIGNED | 4 | OUXBVAMO | - INTERVAL VAM PAGE-OUT ACCUMULAT |
| 36 | (24) | SIGNED | 4 | OUXBVAMR | - INTERVAL VAM RECLAIM ACCUMULATR |
| 36 | (24) | X'28' | 0 | OUXBSWAP | *** SWAP INFORMATION |
| 40 | (28) | SIGNED | 4 | OUXBSPIN | SWAP PAGE IN COUNT |
| 44 | (2C) | SIGNED | 4 | OUXBSPOT | SWAP PAGE OUT COUNT |
| 48 | (30) | SIGNED | 4 | OUXBSWCT | SWAP COUNT |
| 52 | (34) | SIGNED | 4 | OUXBCAPI | - INTERVAL COMMON AREA PAGINS |
| 56 | (38) | SIGNED | 4 | OUXBHSPI | - HIPERSPACE PAGE-IN COUNT |
| 60 | (3C) | SIGNED | 4 | OUXBSTCT | - PAGES STOLEN ACCUMULATOR |
| 64 | (40) | SIGNED | 4 | OUXBLPAI | - LPA PAGE IN |
| 68 | (44) | SIGNED | 4 | OUXBHSPO | - HIPERSPACE PAGE-OUT COUNT |
| 72 | (48) | SIGNED | 2 | OUXBCPD | - Delayed sample count - count for reduced preemption of the number of times this address space was delayed during a cycle (20) of samples |
| 74 | (4A) | SIGNED | 2 | OUXBSTC | - INTERVAL STEAL CALL COUNT |
| 76 | (4C) | SIGNED | 4 | OUXBEJST | - BASE EXEC TIME FOR 101% |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|--------------|---|
| Dec | Hex | | | | |
| 80 | (50) | ADDRESS | 4 | OUXBTSW | - TRANSWAP ECB ADDRESS |
| 80 | (50) | X'54' | 0 | OUXBFLDS | *** OUXB information saved in OUSB at QSCEMP (Queisce Complete) |
| 84 | (54) | SIGNED | 4 | OUXBRV2 | - reserved |
| 84 | (54) | X'58' | 0 | OUXBACNT | *** ACCOUNTING INFORMATION |
| 88 | (58) | SIGNED | 4 | OUXBTRC | - SESSION TRANSACTION COUNT |
| 92 | (5C) | SIGNED | 4 | OUXBJBS | - SESSION SERVICE ACCUMULATOR |
| 96 | (60) | SIGNED | 4 | OUXBJBT | - SESSION TIME ACCUMULATOR |
| 100 | (64) | SIGNED | 4 | OUXBRVSD | - reserved |
| 104 | (68) | SIGNED | 4 | OUXBTRT | - TRANSACTION TIME ACCUMULATOR |
| 108 | (6C) | SIGNED | 4 | OUXBJBR | - SESSION RESIDENCY ACCUMULATOR |
| 112 | (70) | SIGNED | 4 | OUXBRVSE | - reserved |
| 116 | (74) | SIGNED | 4 | OUXBJCPU | - SESSION CPU SERVICE ACCUM |
| 120 | (78) | SIGNED | 4 | OUXBTCPU | - TRANSACTION CPU SERVICE ACCUM |
| 124 | (7C) | SIGNED | 4 | OUXBJIOC | - SESSION I/O SERVICE ACCUM |
| 128 | (80) | SIGNED | 4 | OUXBTIOC | - TRANSACTION I/O SERVICE ACCUM |
| 132 | (84) | SIGNED | 4 | OUXBJMSO | - SESSION STORAGE SERVICE ACCUM |
| 136 | (88) | SIGNED | 4 | OUXBTMSO | - TRANSACTION STORAGE SERVICE ACC |
| 140 | (8C) | SIGNED | 4 | OUXBJSRB | - SESSION SRB SERVICE ACCUM |
| 144 | (90) | SIGNED | 4 | OUXBTSRB | - TRANSACTION SRB SERVICE ACCUM |
| 148 | (94) | SIGNED | 4 | OUXBCSET | - Base preemptable and client SRB time, utilized in AP1. |
| 152 | (98) | SIGNED | 4 | OUXBIOSM | - SMF BASE EXCP COUNT |
| 156 | (9C) | SIGNED | 4 | OUXBDCTI | - DEVIVE CONN TIME BASE |
| 160 | (A0) | DBL WORD | 8 | OUXBCPS | - WLM CPU MEASRMT - 64BIT NMB |
| 168 | (A8) | DBL WORD | 8 | OUXBMSS | - WLM MSO BASE SERVICE VALUE |
| 176 | (B0) | DBL WORD | 8 | OUXBSBS | WLM SRB BASE SERVICE VALUE |
| 184 | (B8) | SIGNED | 4 | OUXBRVSC | - RESERVED |
| 188 | (BC) | SIGNED | 4 | OUXBSTD | - AUX BASE START TIME |
| 192 | (C0) | SIGNED | 4 | OUXBPRS | - PERF GRP PERIOD STARTING SERVIC |
| 196 | (C4) | SIGNED | 2 | OUXBWCT | - APG BASE SHORT WAIT COUNT |
| 198 | (C6) | SIGNED | 1 | OUXBRV1 | - RESERVED |
| 199 | (C7) | BITSTRING | 1 | OUXBFLGS | - FLAG BYTE |
| | | 1... | | OUXBWMO | "BIT0" - TSO COMMAND ENDED |
| | | .1.. | | OUXBCLST | "BIT1" - TSO CLIST MODE |
| | | ..1. | | OUXBPRM2 | "BIT2" - Address Space formerly had full preemption |
| | | ...1 | | OUXBISWI | "BIT3" - Ignore paging data because address space was just swapped in |
| | | 1... | | OUXBGFRF | "BIT4" - Getmaind by IRARMERR |
| 200 | (C8) | SIGNED | 4 | OUXBVSC | - AUX BASE VAM SLOT COUNT |
| 204 | (CC) | SIGNED | 4 | OUXBNVC | - AUX BASE NONVAM SLOT COUNT |
| 208 | (D0) | SIGNED | 2 | OUXBFXC | - BASE USER FIXED FRAME COUNT |
| 210 | (D2) | SIGNED | 2 | OUXBUIC | - HIGHEST UNREF FRAME COUNT |
| 212 | (D4) | SIGNED | 4 | OUXBSIBP | - BASE PAGE IN COUNT |
| 216 | (D8) | SIGNED | 4 | OUXBSIBR | - BASE RESIDENT TIME |
| 220 | (DC) | SIGNED | 4 | OUXBSIBE | - BASE EXECUTION TIME |
| 224 | (E0) | SIGNED | 2 | OUXBSIPR | - RECENT PAGE IN RATE |
| 226 | (E2) | ADDRESS | 2 | (2) | - RESERVED |
| 230 | (E6) | SIGNED | 2 | OUXBBSWC | - Base short wait count |
| 232 | (E8) | DBL WORD | 8 | OUXBAET | - APG BASE CPU MEASUREMENT |
| 240 | (F0) | SIGNED | 4 | OUXBUICT | - TIME UIC UPDT LAST DONE |
| 244 | (F4) | SIGNED | 4 | OUXBTSIO | - TRANSACTION RESIDENT INTERVAL I/O SERVICE |
| 248 | (F8) | SIGNED | 2 | OUXBCPWS | - Swapped in sample count - count for reduced preemption of the number of samples during a sample cycle (20) that this address space was swapped in |
| 250 | (FA) | SIGNED | 2 | OUXBDSCN | - Dispatchable count: the number of times that this address space has been found in subroutine CPUTLCK to be dispatchable yet no CPU time has accumulated for it. |
| 252 | (FC) | SIGNED | 4 | OUXBEJT2 | - LOWER HALF OF ASCBEJST AT SWAP IN |
| 256 | (100) | CHARACTER | 160 | OUXB2BLK (0) | - SECOND PART OF OUXB |
| 256 | (100) | DBL WORD | 8 | OUXBEWST | - ASCBEWST AT SWAP IN |
| 264 | (108) | SIGNED | 4 | OUXBFMCT | - Effective Frame Count |
| 268 | (10C) | SIGNED | 4 | OUXBTRIM | - Count of frames above 512 or the Target Working Set |
| 272 | (110) | CHARACTER | 48 | OUXBPAG2 (0) | More paging info for reporting purposes |
| 272 | (110) | SIGNED | 4 | OUXBBPIN | - Interval block page-in accumulator |

OUXB Cross Reference

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|--------------|---|
| Dec | Hex | | | | |
| 276 | (114) | SIGNED | 4 | OUXBBPNE | - Interval block page-in from ES accumulator |
| 280 | (118) | SIGNED | 4 | OUXBPINE | - Interval page-in from ES accumulator |
| 284 | (11C) | SIGNED | 4 | OUXBBPOT | - Interval block page-out accumulator |
| 288 | (120) | SIGNED | 4 | OUXBBPTE | - Interval block page-out to ES accumulator |
| 292 | (124) | SIGNED | 4 | OUXBPOTE | - Interval page-out to ES accumulator |
| 296 | (128) | SIGNED | 4 | OUXBBKIA | - Interval blocks in aux accumulator |
| 300 | (12C) | SIGNED | 4 | OUXBBKIE | - Interval blocks in ES accumulator |
| 304 | (130) | SIGNED | 4 | OUXBBKOA | - Interval blocks out aux accumulator |
| 308 | (134) | SIGNED | 4 | OUXBBKOE | - Interval blocks out ES accumulator |
| 312 | (138) | SIGNED | 4 | OUXBSPPI | - Interval shared page-ins from aux |
| 316 | (13C) | SIGNED | 4 | OUXBSPEI | - Interval shared page-ins from ES |
| 320 | (140) | DBL WORD | 8 | OUXBIIT | - Base I/O Interrupt time |
| 328 | (148) | DBL WORD | 8 | OUXBHST | - Base Hiperspace time |
| 336 | (150) | SIGNED | 4 | OUXBTRA | - TCB ready accumulator |
| 340 | (154) | SIGNED | 4 | OUXBMTA | - Multi-tasking accumulator |
| 344 | (158) | SIGNED | 4 | OUXBPSTO | - Processor storage base (RAXFMCT + RAXESCT) |
| 348 | (15C) | SIGNED | 4 | OUXBAPIN | - Auxiliary page-in base (OUXBPIN + OUXBBPIN) |
| 352 | (160) | CHARACTER | 48 | OUXBSAV2 (0) | More fields need to be saved across swaps |
| 352 | (160) | DBL WORD | 8 | OUXBRCT | - Base RCT time |
| 360 | (168) | DBL WORD | 8 | OUXBPRSS | - Base preemptable and client SRB time for service calculation |
| 368 | (170) | SIGNED | 4 | OUXBWAIT | Accumulated I/O wait time for the address space from CMB. Includes pending time and control unit queue time. In 128 microsecond units |
| 372 | (174) | SIGNED | 4 | OUXBCON | Accumulated I/O connect time for the address space from CMB. In 128 microsecond units |
| 376 | (178) | SIGNED | 4 | OUXBIOSC | Count of samples included in OUXBWAIT, OUXBCON, OUXBDISC |
| 380 | (17C) | SIGNED | 4 | OUXBDISC | Accumulated I/O disconnect time for address space from CMB. In 128 microsecond units |
| 384 | (180) | SIGNED | 4 | OUXBFCON | Accumulated I/O FICON connect time for the address space from CMB. In 128 microsecond units |
| 388 | (184) | SIGNED | 4 | OUXBFDIS | Accumulated I/O FICON disconnect time for address space from CMB. In 128 microsecond units |
| 392 | (188) | SIGNED | 4 | OUXBFMNO | FICON magic number - for every I/O interrupt from a device attached to a FICON native CHPID, IOS will add one millisecond to this field |
| 396 | (18C) | SIGNED | 4 | OUXBFWAIT | Accumulated I/O FICON wait time for for address space from CMB. Includes pending time and control unit queue time. In 128 microsecond units |
| 400 | (190) | SIGNED | 4 | OUXBSPVB | Base for RaxSpVlc (shared page validation count) used by aux shortage processing |
| 404 | (194) | SIGNED | 4 | (3) | RESERVED |
| 416 | (1A0) | DBL WORD | 8 | OUXBEND (0) | - END OF OUXB |
| 416 | (1A0) | X'1A0' | 0 | OUXBLEN | "OXBEND-OUXB" - LENGTH OF OUXB |

OUXB Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| OUXB | 0 | | OUXBCON | 174 | 0 |
| OUXBACNT | 54 | 58 | OUXBCPDL | 48 | 0 |
| OUXBAET | E8 | 0 | OUXBCPS | A0 | 0 |
| OUXBAPIN | 15C | 0 | OUXBCPWS | F8 | 0 |
| OUXBBKIA | 128 | 0 | OUXBCRMS | 18 | 0 |
| OUXBBKIE | 12C | 0 | OUXBCSET | 94 | 0 |
| OUXBBKOA | 130 | 0 | OUXBDCTI | 9C | 0 |
| OUXBBKOE | 134 | 0 | OUXBDISC | 17C | 0 |
| OUXBBPIN | 110 | 0 | OUXBDSCN | FA | 0 |
| OUXBBPNE | 114 | 0 | OUXBEJST | 4C | 0 |
| OUXBBPOT | 11C | 0 | OUXBEJT2 | FC | 0 |
| OUXBBPTE | 120 | 0 | OUXBEND | 1A0 | |
| OUXBBSWC | E6 | 0 | OUXBEWST | 100 | 0 |
| OUXBCAPI | 34 | 0 | OUXBFCON | 180 | 0 |
| OUXBCLST | C7 | 40 | OUXBFDIS | 184 | 0 |

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|-----------|------------|-----------|----------|------------|-----------|
| OUSBFIXC | D0 | 0 | OUSBTRA | 150 | 0 |
| OUSBFLDS | 50 | 54 | OUSBTRC | 58 | 0 |
| OUSBFLGS | C7 | 0 | OUSBTRIM | 10C | 0 |
| OUSBFMCT | 108 | 0 | OUSBTRT | 68 | 0 |
| OUSBFMNO | 188 | 0 | OUSBTSIO | F4 | 0 |
| OUSBFWAIT | 18C | 0 | OUSBTSRB | 90 | 0 |
| OUSBGFRR | C7 | 8 | OUSBTSW | 50 | |
| OUSBHSPI | 38 | 0 | OUSBUIC | D2 | 0 |
| OUSBHSPO | 44 | 0 | OUSBUICT | F0 | 0 |
| OUSBHST | 148 | 0 | OUSBVAMI | 1C | 0 |
| OUSBIIIT | 140 | 0 | OUSBVAMO | 20 | 0 |
| OUSBIOSC | 178 | 0 | OUSBVAMR | 24 | 0 |
| OUSBIOSM | 98 | 0 | OUSBVSC | C8 | 0 |
| OUSBISWI | C7 | 10 | OUSBWAIT | 170 | 0 |
| OUSBJBR | 6C | 0 | OUSBWCT | C4 | 0 |
| OUSBJBS | 5C | 0 | OUSBWMO | C7 | 80 |
| OUSBJBT | 60 | 0 | OUSB1BLK | 0 | |
| OUSBJCPU | 74 | 0 | OUSB2BLK | 100 | |
| OUSBJIOC | 7C | 0 | | | |
| OUSBJMSO | 84 | 0 | | | |
| OUSBJSRB | 8C | 0 | | | |
| OUBLEN | 1A0 | 1A0 | | | |
| OUSBPAI | 40 | 0 | | | |
| OUSBMET | 8 | 0 | | | |
| OUSBMSS | A8 | 0 | | | |
| OUSBMTA | 154 | 0 | | | |
| OUSBNAME | 0 | D6E4E7C2 | | | |
| OUSBNVC | CC | 0 | | | |
| OUSBPAGE | C | 10 | | | |
| OUSBPAG2 | 110 | | | | |
| OUSBPIN | 10 | 0 | | | |
| OUSBPINE | 118 | 0 | | | |
| OUSBPOTE | 124 | 0 | | | |
| OUSBPOUT | 14 | 0 | | | |
| OUSBPRM2 | C7 | 20 | | | |
| OUSBPRS | C0 | 0 | | | |
| OUSBPRSS | 168 | 0 | | | |
| OUSBPSET | 4 | 0 | | | |
| OUSBPSTO | 158 | 0 | | | |
| OUSBRCCT | 160 | 0 | | | |
| OUSBRSVC | B8 | 0 | | | |
| OUSBRSVD | 64 | 0 | | | |
| OUSBRSVE | 70 | 0 | | | |
| OUSBRSV1 | C6 | 0 | | | |
| OUSBRSV2 | 54 | 0 | | | |
| OUBRSW | C | | | | |
| OUBSAV2 | 160 | | | | |
| OUBSBS | B0 | 0 | | | |
| OUBSIBE | DC | 0 | | | |
| OUBSIBP | D4 | 0 | | | |
| OUBSIBR | D8 | 0 | | | |
| OUBSIPR | E0 | 0 | | | |
| OUBSPEI | 13C | 0 | | | |
| OUBSPIN | 28 | 0 | | | |
| OUBSPOT | 2C | 0 | | | |
| OUBSPPI | 138 | 0 | | | |
| OUBSPVB | 190 | 0 | | | |
| OUBSTC | 4A | 0 | | | |
| OUBSTCT | 3C | 0 | | | |
| OUBSTD | BC | 0 | | | |
| OUBSWAP | 24 | 28 | | | |
| OUBSWCT | 30 | 0 | | | |
| OUBTCPU | 78 | 0 | | | |
| OUBTIOC | 80 | 0 | | | |
| OUBTMSO | 88 | 0 | | | |

PARM4CB Heading Information

Common Name: Input for IEFAB4CB
Macro ID: IEFZB4CB
DSECT Name: None
Owning Component: Allocation (SC1B4)
Eye-Catcher ID: None
Storage Attributes: Key: 1
Residency: Any
Size: 12 bytes * number of devices to be processed
Created by: Issuers of IEFPEND (Currently only Consoles)
Pointed to by: DEVLIST parameter of IEFPEND
Serialization: None
Function: Maps the device list which is used by the IEFPEND macro, Consoles and IEFAB4CB.

PARM4CB Map

| Offsets | | | | | |
|---------|-----|------------|-----|---------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 12 | CB_DEVICES (*) | List of pending devices |
| 0 | (0) | CHARACTER | 4 | CB_DEVNUM | Device number in EBCDIC |
| 4 | (4) | ADDRESS | 4 | CB_DVUCBPTR | Corresponding UCB pointer |
| 8 | (8) | CHARACTER | 1 | CB_DEVFLAGS | Flags |
| | | 1... .. | | CB_ACTION_COMPLETE | |
| | | | | | Requested function completed successfully |
| | | .1.. .. | | CB_ACTION_PENDING | |
| | | | | | Requested function still pending due to the device state |
| | | ..1. | | CB_JES3_VARY_NEEDED | |
| | | | | | Device must be varied online to JES3. |
| | | ...1 | | CB_DEVICE_INVALID | |
| | | | | | No UCB could be found for the input device number |
| | | 1111 | | * | Reserved |
| 9 | (9) | CHARACTER | 3 | * | Reserved |

PART Heading Information

Common Name: Paging Activity Reference Table
Macro ID: ILRPART
DSECT Name: PART
Owning Component: Auxiliary Storage Manager (SC1CW)
Eye-Catcher ID: PART
 Offset: 0
 Length: 4
Storage Attributes: Virtual Storage: YES
 Subpool: 245
 Key: 0
 Data Space: NO
 Residency: Above 16 Megabytes virtual
Size: Header is 80 bytes. Each entry (PARTE) is 96 bytes.
 There can be up to 256 PARTES.
Created by: ILRASRM1
Pointed to by: ASMPART field of the ASMTV data area.
 IORPARTE field of the IORB points to a PART entry (PARTE)
 PAREPARE field of the PARTE points to the next PARTE in use
 PATPART field of the PAT points to the PARTE associated
 with that PAT.
Serialization: ASMGL lock
Function: PART is the map relating the collection of logical slots
 of auxiliary storage to identifiable page data sets.

PART Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-------|------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 24656 | PART | Paging Activity Reference Table |
| 0 | (0) | CHARACTER | 80 | PARTHDR | PART header. Contains general information about the page data sets. |
| 0 | (0) | CHARACTER | 4 | PARTIDEN | 'PART' identifier. (COMMON) |
| 4 | (4) | SIGNED | 4 | PARTSIZE | Total number of entries in the PART, used or unused. (COMMON) |
| 8 | (8) | SIGNED | 2 | PARTEUSE | Total number of PART entries currently in use. (COMMON) |
| 10 | (A) | SIGNED | 2 | PARTLAST | Index number of the last PARTE which is in use (zero-based). (COMMON) |
| 12 | (C) | ADDRESS | 4 | PARTCIR0 | Circular queue header for PAV data sets. (COMMON) |
| 16 | (10) | ADDRESS | 4 | * | Reserved for PARTCIR1 |
| 20 | (14) | ADDRESS | 4 | PARTCIR2 | Circular queue header for movable-head data sets. (COMMON) |
| 24 | (18) | ADDRESS | 4 | PARTDSNL | Address of the page data set section of the ASM data set name list, in ECSA. This address replaces the TPARTBLE pointer when the DSNLIST is built by ILRTMI00. (COMMON) |
| 24 | (18) | ADDRESS | 4 | PARTTPAR | Address of TPARTBLE for use by ILRTMI00. |
| 28 | (1C) | ADDRESS | 4 | PARTPCTQ | Address of first in chain of one or more PCTs that have been built for the device types containing open page data sets. (COMMON) |
| 32 | (20) | SIGNED | 2 | PARTLCNT | Count of active local page data sets |
| 34 | (22) | BITSTRING | 1 | PARTFLG1 | PART flags |
| | | 1... .. | | PARTNVIO | VIO-accepting data set flag. 1 = no VIO-accepting data sets are in use, 0 = at least one VIO-accepting data set is in use. |
| | | .111 1111 | | * | Reserved |
| 35 | (23) | CHARACTER | 1 | * | Reserved |
| 36 | (24) | CHARACTER | 8 | PARTNPCW | Queue of AIAs to be redriven because there were no PCCWs available. |
| 36 | (24) | ADDRESS | 4 | PARTNPCF | First AIA on no-PCCW queue |

PART Map

| Offsets | | | | | |
|---------|------|------------|-----|--------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 40 | (28) | ADDRESS | 4 | PARTNPCL | Last AIA on no-PCCW queue |
| 44 | (2C) | UNSIGNED | 4 | PARTTIME | Sum of total service times for all local page data sets |
| 48 | (30) | ADDRESS | 4 | PARTPLPA | Address of the PARTE for the PLPA data set |
| 52 | (34) | ADDRESS | 4 | PARTLOCA | Address of the PARTE for the first local page data set |
| 56 | (38) | ADDRESS | 4 | PARTLSTA | Address of the PARTE for the last in-use local page data set. |
| 60 | (3C) | CHARACTER | 19 | PARTRSV2 | Reserved |
| 79 | (4F) | BITSTRING | 1 | PARTLVL | PART level ID |
| 80 | (50) | CHARACTER | 96 | PARENTS (0 255) | The PART entries. One PARTE represents one page data set. A PARTE is built for each page data set opened at IPL time and for each potential data set that can be added later up to a maximum of 256 total entries. |

| Offsets | | | | | |
|---------|------|------------|-----|---------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 96 | PARTENT | PART Entry |
| 0 | (0) | ADDRESS | 4 | PAREPARE | Pointer to next PARTE in use. (COMMON) |
| 4 | (4) | UNSIGNED | 1 | PAREBRST | Burst size for this data set |
| 5 | (5) | UNSIGNED | 1 | PAREIORN | Number of IORBs built for this data set |
| 6 | (6) | CHARACTER | 2 | PARERSV4 | Reserved |
| 8 | (8) | CHARACTER | 1 | PARETYPE | Page data set type flags |
| | | 1... | | PAREPLPA | PLPA data set flag. |
| | | .1.. | | PARECOMM | Common data set flag. |
| | | .1.. | | * | Reserved |
| | | ...1 | | PARELOCL | Local data set flag. |
| | | 1... | | * | Reserved |
| | |1.. | | * | Reserved |
| | |1.. | | PAREPD | PAGEDEL-in-process flag. 1 = PAGEDEL is in process for this data set, 0 = PAGEDEL not active. (COMMON) |
| | |1 | | PAREDRN | Draining flag. 1 = data set is draining, 0 = data set not draining. (COMMON) |
| 9 | (9) | CHARACTER | 1 | PAREFLG1 | PARTE flags |
| | | 1... | | PARENUSE | PARTE not in use flag. 1 = PARTE not in use, 0 = PARTE in use. (COMMON) |
| | | .1.. | | PAREDSBD | Data set bad flag. 1 = ASM has marked this page data set bad. It is no longer being used for write requests, and is effectively read-only, 0 = data set in normal read/write use. (COMMON) |
| | | ..1. | | * | Reserved. |
| | | ...1 | | PARENVIO | NONVIO flag. 1 = data set is a NONVIO data set, 0 = data set is not NONVIO. |
| | | 1... | | PAREPAVOK | WLM managed PAV device. 1 = data set is on an PAV capable storage subsystem with WLM managed aliases defined, 0 = data set is normal. (COMMON) |
| | |1.. | | PAREPAVACTIVE | PAV support is active 1 = an alias has been defined for this data set, 0 = data set is normal. (COMMON) |
| | |1.. | | PARECACHEOK | 1 = data set is on a device for which we should not bypass caching, 0 = caching should be bypassed (COMMON) |
| | |1 | | PARECKD | ECKD architecture flag. 1 = data set is on an ECKD device, 0 = data set is not on an ECKD device. (COMMON) |
| 10 | (A) | SIGNED | 2 | PARENEN | PART number for this PARTE. (COMMON) |
| 12 | (C) | ADDRESS | 4 | PAREDEIB | Pointer to the DEIB for this data set |
| 16 | (10) | SIGNED | 4 | PARESZSL | Total defined size of the data set, in slots. (COMMON) |
| 20 | (14) | SIGNED | 4 | PARESLTA | Number of currently available slots on the data set. (COMMON) |
| 24 | (18) | SIGNED | 4 | PARERRCT | Number of permanent I/O errors suffered by this page data set. (COMMON) |
| 28 | (1C) | ADDRESS | 4 | PAREIORB | Pointer to first IORB for this page data set. (COMMON) |
| 32 | (20) | ADDRESS | 4 | PAREPATP | Pointer to PAT for this page data set. (COMMON) |
| 36 | (24) | ADDRESS | 4 | PAREPCTP | Pointer to PCT for the type of device on which this data set resides. (COMMON) |
| 40 | (28) | ADDRESS | 4 | PAREEDBP | Pointer to EDB for page data set. (COMMON) |
| 44 | (2C) | ADDRESS | 4 | PAREUCBP | Pointer to UCB for page data set. (COMMON) |
| 48 | (30) | ADDRESS | 4 | * | Reserved |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|---|
| Dec | Hex | | | | |
| 52 | (34) | UNSIGNED | 4 | PARETIME | Total service time for this data set (used for locals only) |
| 56 | (38) | UNSIGNED | 4 | PARERQTM | Latest calculation of single-request service time for this data set (used for locals only) |
| 60 | (3C) | CHARACTER | 2 | PARERSV3 | Reserved |
| 62 | (3E) | SIGNED | 2 | PAREREQS | Number of outstanding I/O requests on the data set (used for all page data sets) |
| 64 | (40) | BITSTRING | 1 | PAREFLG2 | Flag byte |
| | | 1... .. | | PAREPAVQ | PAV queue flag. 1 = data set is on the PAV circular queue, 0 = data set not on the PAV queue. (COMMON) |
| | | .1.. .. | | * | Reserved |
| | | ..1. | | PAREMOVQ | Moveable-head queue flag. 1 = data set is on the moveable-head circular queue, 0 = data set is not on the moveable-head queue. (COMMON) |
| | | ...1 | | PAREPKER | Pack error flag. 1 = data set bad due to pack error, 0 = data set not bad due to pack error. (COMMON) |
| | | 1... | | PAREFRSB | ILRFRSRB scheduled flag. 1 = ILRFRSRB scheduled, 0 = ILRFRSRB not scheduled (COMMON) |
| | |1.. | | PARESLT0 | Slot 0 error flag. 1 = slot 0 is bad due to an I/O error, 0 = slot 0 is usable. (COMMON) |
| | |1. | | PARECATE | Catalog access error flag. 1 = catalog access failed due to an uncorrectable error. 0 = catalog is usable. (COMMON) |
| | |1 | | * | Reserved |
| 65 | (41) | UNSIGNED | 3 | PARELSLT | Write cursor. Contains the slot number of the last slot written-to on the data set (COMMON) |
| 68 | (44) | ADDRESS | 4 | PAREOCTB | Address of old CTB, if any. (COMMON) |
| 72 | (48) | SIGNED | 4 | PAREMIGA | Migrated slot count (COMMON) 4@L6D |
| 76 | (4C) | BITSTRING | 8 | PAREDTIM | Dataset definition timestamp |
| 84 | (54) | CHARACTER | 12 | PARERSV1 | Reserved |

PART Constants

| Len | Type | Value | Name | Description |
|-----|---------|-------|----------|--|
| 1 | DECIMAL | 0 | PARTPLPN | PART number of PLPA data set |
| 1 | DECIMAL | 1 | PARTCOMN | PART number of common data set |
| 1 | DECIMAL | 2 | PARTRSVD | Reserved constant. Was the PART number of the DUPLEX data set. |
| 1 | DECIMAL | 3 | PARTLOCN | PART number of first local data set |
| 1 | HEX | 02 | PARTLEVL | PART level ID |

PART Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|-------------|------------|-----------|---------------|------------|-----------|
| PAREBRST | 4 | | PARENUSE | 9 | 80 |
| PARECACHEOK | 9 | 02 | PARENIO | 9 | 10 |
| PARECATE | 40 | 02 | PAREOCTB | 44 | |
| PARECKD | 9 | 01 | PAREPARE | 0 | |
| PARECOMM | 8 | 40 | PAREPATP | 20 | |
| PAREDEIB | C | | PAREPAVACTIVE | | |
| PAREDRN | 8 | 01 | | 9 | 04 |
| PAREDSBD | 9 | 40 | PAREPAVOK | 9 | 08 |
| PAREDTIM | 4C | | PAREPAVQ | 40 | 80 |
| PAREEDBP | 28 | | PAREPCTP | 24 | |
| PAREFLG1 | 9 | | PAREPD | 8 | 02 |
| PAREFLG2 | 40 | | PAREPKER | 40 | 10 |
| PAREFRSB | 40 | 08 | PAREPLPA | 8 | 80 |
| PAREIORB | 1C | | PAREREQS | 3E | |
| PAREIORN | 5 | | PARERQTM | 38 | |
| PARELOCL | 8 | 10 | PARERRCT | 18 | |
| PARELSLT | 41 | | PARERSV1 | 54 | |
| PAREMIGA | 48 | | PARERSV3 | 3C | |
| PAREMOVQ | 40 | 20 | PARERSV4 | 6 | |
| PARENN | A | | PARESLTA | 14 | |

PART Cross Reference

| Name | Hex Offset | Hex Value |
|----------|---------------|--------------|
| PARESLT0 | 40 | 04 |
| PARESZSL | 10 | |
| PARETIME | 34 | |
| PARETYPE | 8 | |
| PAREUCBP | 2C | |
| PART | 0 | |
| PARTCIR0 | C | |
| PARTCIR2 | 14 | |
| PARTDSNL | 18 | |
| PARTENT | 0 | |
| PARTENTS | 50 | |
| PARTEUSE | 8 | |
| PARTFLG1 | 22 | |
| PARTHDR | 0 | |
| PARTIDEN | 0 | |
| PARTLAST | A | |
| PARTLCNT | 20 | |
| PARTLOCA | 34 | |
| PARTLSTA | 38 | |
| PARTLVL | 4F | |
| PARTNPCF | 24 | 80 |
| PARTNPCL | 28 | |
| PARTNPCW | 24 | |
| PARTNVIO | 22 | |
| PARTPCTQ | 1C | |
| PARTPLPA | 30 | |
| PARTRSV2 | 3C | |
| PARTSIZE | 4 | |
| PARTTIME | 2C | |
| PARTTPAR | 18 | |

PAT Heading Information

Common Name: Page Allocation Table
Macro ID: ILRPAT
DSECT Name: PAT
Owning Component: Auxiliary Storage Manager (SC1CW)
Eye-Catcher ID: PAT
 Offset: 0
 Length: 4
Storage Attributes: Virtual Storage: YES
 Subpool: 245
 Key: 0
 Data Space: NO
 Residency: Above 16 Megabytes virtual
Size: 24 bytes + 1 bit per slot in the paging space
Created by: ILRASRIM, ILRPGEXP
Pointed to by: PAREPATP field of the PARTE data area
Serialization: The PATMAPs are serialized by the ASMGL lock.
Function: The PAT is an exact representation of allocated slots within a paging space.

PAT Map

| Offsets | | | | | |
|---------|------|------------|-----|-------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | * | PAT | Page Allocation Table |
| 0 | (0) | CHARACTER | 24 | PATHDR | PAT header |
| 0 | (0) | CHARACTER | 4 | PATIDENT | 'PAT ' identifier |
| 4 | (4) | ADDRESS | 4 | PATPART | Pointer to the PART entry |
| 8 | (8) | SIGNED | 2 | PATCYLNO | Number of cylinder maps in this PAT |
| 10 | (A) | SIGNED | 2 | PATCYLSZ | Number of slots per cylinder |
| 12 | (C) | SIGNED | 2 | PATCYLMW | Number of words required to map one cylinder |
| 14 | (E) | CHARACTER | 2 | PATRSV1 | Reserved |
| 16 | (10) | CHARACTER | 4 | PATCCHHB | CCHH of the beginning of the data set |
| 20 | (14) | CHARACTER | 4 | PATCCHHE | CCHH of the end of the data set |
| 24 | (18) | CHARACTER | * | PATMAP | Slot allocation bit map. |
| 24 | (18) | CHARACTER | 4 | PATCYLS (*) | Cylinder map words |

PAT Cross Reference

| Name | Hex Offset | Hex Value |
|----------|------------|-----------|
| PAT | 0 | |
| PATCCHHB | 10 | |
| PATCCHHE | 14 | |
| PATCYLMW | C | |
| PATCYLNO | 8 | |
| PATCYLS | 18 | |
| PATCYLSZ | A | |
| PATHDR | 0 | |
| PATIDENT | 0 | |
| PATMAP | 18 | |
| PATPART | 4 | |
| PATRSV1 | E | |

PCB Heading Information

Common Name: PAGE CONTROL BLOCK
Macro ID: IARPCB
DSECT Name: PCB
Owning Component: Real Storage Manager (SC1CR)
Eye-Catcher ID: None
Storage Attributes: Virtual Storage: Yes
 Subpool: 245
 Key: 0
 Residency: Anywhere
Size: 144 Bytes
Created by: IARUGRPB
Pointed to by: PCBFQPTR field of the PCB Data Area
 PCBBQPTR field of the PCB Data Area
 RABLDPQF field of the RAB Data Area
 RABLDPQL field of the RAB Data Area
 RABNPQF field of the RAB Data Area
 RABNPQL field of the RAB Data Area
 RABCPQF field of the RAB Data Area
 RABCPQL field of the RAB Data Area
Serialization: Varies
Function: Represents a paging operation to RSM

PCB Map

| Offsets | | | | | |
|---------|-----|------------|-----|------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 144 | PCB | |
| 0 | (0) | ADDRESS | 4 | PCBFQPTR | FORWARD PCB QUEUE POINTER |
| 4 | (4) | ADDRESS | 4 | PCBBQPTR | BACKWARD PCB QUEUE POINTER |
| 8 | (8) | BITSTRING | 1 | PCBSTATE | STATE OF THE RPB |
| | | 1... | | PCBONFRQ | PCB IS ON THE FREE RPB QUE |
| | | .1... | | PCBPDINT | PCB IS INTERCEPTED FOR RPB POOL DELETION |
| | | ..11 1111 | | * | RESERVED FOR RPB STATES |
| 9 | (9) | UNSIGNED | 1 | PCBTYPE | RPB CONTROL BLOCK TYPE. FOR A PCB THIS FIELD IS KPCBRPB |
| 10 | (A) | CHARACTER | 1 | PCBQID | QUEUE ID FOR CURRENT QUEUE---- 00=>UNQUEUED-PCB 10=>LOCAL-DEFERRED-PCB-QUEUE 11=>DEFERRED-PCB-QUEUE 12=>NOTIFICATION-PCB-QUEUE 13=>ADDRESS-SPACE-CREATE-QUEUE 14=>COMMIT-PCB-QUEUE FD=>FLAWED-PCB |
| 11 | (B) | BITSTRING | 1 | PCBFLGS1 | FLAG BYTE 1 |
| | | 1... | | PCBFCBA | PCB IS ASSOCIATED WITH AN FCB |
| | | .1... | | PCBFAIL | REQUEST HAS FAILED |
| | | ..1. | | PCBIOERR | FAILURE DUE TO AN I/O ERROR |
| | | ...1 | | PCBXMERR | FAILURE DUE TO XMEM ACCESS ERR |
| | | 1... | | PCBASBO | ASSOCIATE FAILURE |
| | |1.. | | PCBSPAGE | PCB IS FOR A SHARED PAGE |
| | |1. | | PCBMEGAP | PCB IS FOR A megarooed page |
| | |1 | | PCBDFRIO | PCB is for Defer I/O |
| 12 | (C) | BITSTRING | 1 | PCBFLGS2 | FLAG BYTE 2 |
| | | 1... | | PCBFXHI | THE FIX COUNT IN THE PGT FOR THIS PAGE HAS BEEN ADJUSTED ONE HIGHER THAN NORMAL SPECIFICALLY FOR THE REQUEST REPRESENTED BY THIS PCB |
| | | .1... | | PCBOUT | PCB IS FOR OUTPUT I/O |

PCB Map

| Offsets | | | | | |
|--|------|------------|-----|------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| | | .1. | | PCBNOITV | WHEN PCB IS ON THE DPQ, THERE IS NO INTENT TO VALIDATE THE PAGE |
| | | ...1 | | PCBINCWS | PAGE IS TO BE INCLUDED IN THE WORKING SET BY SWAP OUT WHEN THE I/O COMPLETES |
| | | 1... | | PCBFIX | PCB IS FOR AN ACTIVE ADDRESS SPACE PAGE FIX OR FOR AN ACTIVE DATA SPACE PAGE IOON REQUEST |
| | |1.. | | PCBBELOW | NEED REAL STORAGE BELOW 16M |
| | |1. | | PCBPREF | NEED PREFERRED AREA REAL STG |
| | |1 | | PCBBAVQL | GENERAL DEFER SHOULD BYPASS THIS PCB DURING AVQLOW |
| 13 | (D) | BITSTRING | 1 | PCBFLGS3 | FLAG BYTE 3 |
| | | 1... | | PCBVDISC | PCB DISCONNECTED FROM VIRTUAL |
| | | .1.. | | PCBRDISC | PCB DISCONNECTED FROM REAL |
| | | ..1. | | PCBFRAUX | FREE AUX STG WHEN I/O COMPLETES |
| | | ...1 | | PCBFREAL | FREE FRAME WHEN I/O COMPLETES |
| | | 1... | | * | |
| | | 1... | | PCBXPTNA | XPTLPID FIELD SHOULD NOT BE ACCESSED WHEN I/O COMPLETES - Used when in 390 Mode |
| | | 1... | | PCBPTEXNA | PTEXLPIDP FIELD SHOULD NOT BE ACCESSED WHEN I/O COMPLETES - Used when in ESAME Mode |
| | |1.. | | PCBNOTRS | I/O COMPLETION SHOULD NOT TRAS |
| | |1. | | PCBNODFR | PCB SHOULD BE SENT TO THE I/O CANCEL ROUTINE BY GENERAL DEFER |
| | |1 | | PCBTOP | WHEN PCBFREAL=1, THE PFTE ASSOCIATED WITH THIS PCB SHOULD BE SENT TO THE TOP OF THE AFQ AFTER ZEROING OUT THE PFTASID |
| 14 | (E) | BITSTRING | 1 | PCBFLGS4 | FLAG BYTE 4 |
| | | 1... | | PCBCHGON | THE CHANGE BIT FOR THIS PAGE SHOULD BE SET ON WHEN THE PAGE IS VALIDATED. (INPUT ONLY) |
| | | .1.. | | PCBVDIA | THIS PCB HAS A VDI |
| | | ..1. | | PCBCOM | PCB IS FOR A COMMIT |
| | | ...1 | | PCBDIS | PCB IS FOR A DISASSOCIATE |
| | | 1... | | PCBPRM | PCB IS FOR PRIMING FUNC. |
| | |1.. | | PCBNOHLK | HOME ADDRESS SPACE SERIALIZATION IS NOT NEEDED ON I/O COMP. |
| | |1. | | PCBINNV | DO NOT VALIDATE PAGE WHEN INPUT I/O COMPLETES. |
| | |1 | | PCBNOVAL | DO NOT VALIDATE PAGE IF THERE IS AN OUTPUT I/O ERROR. |
| 15 | (F) | BITSTRING | 1 | PCBFLGS5 | Flag byte 5 |
| | | 1... | | PCBADISC | PCB disconnected from aux |
| | | .111 1111 | | * | Unused |
| 16 | (10) | CHARACTER | 1 | PCBFID | EXTERNAL FUNCTION ID |
| 17 | (11) | BITSTRING | 1 | PCBFLGSA | FUNCTION FLAG BYTE A - MEANINGS DEPEND ON FUNCTION - SEE BELOW |
| 18 | (12) | UNSIGNED | 2 | PCBEPID | ENTRY POINT ID OF ENTRY POINT INITIALIZING THIS PCB |
| 20 | (14) | ADDRESS | 4 | PCBRPCBQ | ADDRESS OF RELATED PCB OR ZERO |
| 24 | (18) | ADDRESS | 4 | PCBPBAB | ADDR OF PAGE RAB |
| 28 | (1C) | ADDRESS | 4 | PCBHRRAB | ADDR OF HOME RAB REQUESTING I/O |
| 32 | (20) | UNSIGNED | 4 | PCBTCB | ADDR OF TCB REQUESTING I/O |
| 32 | (20) | UNSIGNED | 4 | PCBSSRB | ADDR OF SSRB REQUESTING I/O |
| 32 | (20) | ADDRESS | 4 | PCBVVSA | INITIAL VSA IF A VDAC PCB |
| 36 | (24) | ADDRESS | 4 | PCBRB | ADDR OF RB REQUESTING I/O OR 0 |
| 36 | (24) | ADDRESS | 4 | PCBFCB | ADDR OF FCB IF PCBFCBA=1 |
| 36 | (24) | ADDRESS | 4 | PCBSFTE | ADDRESS OF THIS PAGE'S SFTE IF SWAP-IN OR SWAP-OUT PCB |
| 40 | (28) | CHARACTER | 8 | PCBVSA64 | |
| Comment | | | | | |
| VIRTUAL ADDRESS OF PAGE. Valid if PCBSPAGE=0 | | | | | |
| End of Comment | | | | | |
| 40 | (28) | UNSIGNED | 4 | * | Not used in ESA mode |
| 44 | (2C) | ADDRESS | 4 | PCBVSA | VIRTUAL ADDRESS OF PAGE. Valid if PCBSPAGE=0 |

| Offsets | | | | | |
|---------|------|-------------------------------------|-----|--------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 44 | (2C) | ADDRESS | 4 | PCBSDH | Address of SDH if PCBSPAGE=1 and (PCBOUT=1 and PCBPFTF->PFTIOMC=0) |
| 44 | (2C) | ADDRESS | 4 | PCBSPE | Address of SPE if PCBSPAGE=1 and (PCBOUT=0 or PCBPFTF->PFTIOMC=1) |
| 48 | (30) | CHARACTER | 12 | * | 390 Mode Mapping - These fields will remain at the same offsets so that external 390 mode users will not need to modify their programs |
| 48 | (30) | CHARACTER | 12 | * | |
| 48 | (30) | ADDRESS | 4 | PCBPFTF | ADDRESS OF PFTF BACKING VIRTUAL |
| 52 | (34) | ADDRESS | 4 | PCBPGTE | ADDRESS OF PGTE FOR PAGE |
| 56 | (38) | ADDRESS | 4 | PCBXPTE | ADDRESS OF XPTE FOR PAGE |
| 48 | (30) | CHARACTER | 12 | * | ESAME Mode Mapping |
| 48 | (30) | ADDRESS | 4 | PCBPFTF64 | ADDRESS OF PFTF BACKING VIRTUAL - ESAME |
| 52 | (34) | ADDRESS | 4 | * | To be removed in 64BIT real phase II when change to use 64 bit address |
| 56 | (38) | ADDRESS | 4 | PCBPTE | Virtual Address of PTE for Page. Not applicable to pages above 2G. |
| 60 | (3C) | CHARACTER | 4 | PCBFUNAR | FUNCTION AREA - MAPPED AS REQUIRED BY EACH FUNCTION |
| 64 | (40) | CHARACTER 1111 1... | 4 | PCBPROG PCBSTYPE * | PROGRAMMING WORD SPACE TYPE (8=DATA SPACE). RESERVED |
| 64 | (40) | BITSTRING | 2 | PCBUDSX | USER DATA SPACE INDEX |
| 67 | (43) | BITSTRING | 1 | PCBRVTEX | RVTE INDEX |
| 68 | (44) | UNSIGNED | 4 | PCBEXITS | PCB EXIT INDEXES |
| 68 | (44) | ADDRESS | 1 | PCBDEFRX | DEFER EXIT ROUTINE INDEX |
| 69 | (45) | ADDRESS | 1 | PCBIOCMX | I/O COMPLETION EXIT RTN INDEX. IF THIS INDEX IS FOR THE SWAP PURGE I/O COMPLETION EXIT AND THE ORIGINAL I/O COMPLETION ROUTINE MUST ALSO RUN, THEN THE ORIGINAL INDEX WILL BE FOUND IN THE PCBSWAPX FIELD. |
| 70 | (46) | ADDRESS | 1 | PCBTERMX | TERMINATION EXIT ROUTINE INDEX |
| 71 | (47) | ADDRESS | 1 | PCBSWAPX | SWAP-OUT EXIT ROUTINE INDEX IF SWAP PURGE HAS NOT RUN. IF SWAP PURGE HAS RUN, THEN THIS FIELD WILL CONTAIN 0 OR, IF THE ORIGINAL I/O COMPLETION EXIT MUST ALSO RUN, THE ORIGINAL I/O COMPLETION INDEX. |
| 72 | (48) | ADDRESS | 4 | PCBRVR | ADDRESS OF THE RVR WHEN THIS PCB REPRESENTS HOME I/O |
| 76 | (4C) | ADDRESS | 4 | PCBIWB | IWB ADDRESS - ZERO IF NONE |
| 80 | (50) | CHARACTER | 12 | * | Reserved |
| 92 | (5C) | CHARACTER | 52 | PCBAIA | AIA AREA |
| 92 | (5C) | CHARACTER | 52 | PCBVDI | VDI AREA |

| Offsets | | | | | |
|---------|------|-------------------------------------|-----|---------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 17 | (11) | STRUCTURE 1... .... .111 1111 | 1 | PCBSFFLA PCBSFINT * | SEGMENT FAULT FLAGS INTERNAL RSM CALLER STOPPED RESERVED |

| Offsets | | | | | |
|---------|------|-------------------------------------|-----|---------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 17 | (11) | STRUCTURE 1... .... .111 1111 | 1 | PCBMGFLA PCBMGMPE * | MIGRATION FLAGS THERE IS AN MPE ASSOCIATED WITH THIS PCB. RESERVED |

| Offsets | | | | | |
|---------|------|------------|-----|------------|-----------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 17 | (11) | STRUCTURE | 1 | PCBDSFLA | DISASSOC. FLAGS |

PCB Map

| Offsets | | | | | |
|---------|------|---|-----|--|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| | | 1... .... .111 1111 | | PCBDSVDS * | I/O IS EXPECTED TO BE VIRTUALLY DISCONNECTED. RESERVED |
| Offsets | | | | | |
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 17 | (11) | STRUCTURE 1... .... .1.. .... ..1. .... ...1 1111 | 1 | PCBCMFLA PCBCMALL PCBCMPFR PCBCMFG * | COMMIT FLAGS THIS PAGE IS PART OF A COMMIT ALL REQUEST. THE FRAME BACKING THIS PAGE WAS ASSIGNED BY COMMIT. THE PAGE IS IN A FRESHLY OBTAINED STATE. RESERVED |
| Offsets | | | | | |
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 17 | (11) | STRUCTURE 1... .... .111 1111 | 1 | PCBPVFLA PCBPVFLH * | DATA SPACE PAGE VALIDATION CALLER WAS RUNNING UNDER THE PFLIH RESERVED |
| Offsets | | | | | |
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 17 | (11) | STRUCTURE 1... .... .111 1111 | 1 | PCBGDFLA PCBABOVE * | General defer Requestor requires a frame that resides below the bar RESERVED |
| Offsets | | | | | |
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 60 | (3C) | STRUCTURE | 4 | PCBMGFUN | MIGRATION FUNCTION AREA |
| 60 | (3C) | ADDRESS | 4 | PCBMGMPE | MPE POINTER |
| Offsets | | | | | |
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 60 | (3C) | STRUCTURE | 4 | PCBCMFUN | COMMIT FUNCTION AREA |
| 60 | (3C) | ADDRESS | 4 | PCBCMRVR | ADDRESS OF THE RVR ASSOCIATED WITH THIS PAGE. |
| Offsets | | | | | |
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 60 | (3C) | STRUCTURE | 4 | PCBPVFUN | DATA SP PAGE VALIDATION FUNCTION AREA |
| 60 | (3C) | BITSTRING | 1 | PCBPVTYP | PAGE TYPE FROM DSPFIND |
| 61 | (3D) | BITSTRING | 3 | * | RESERVED |
| Offsets | | | | | |
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 60 | (3C) | STRUCTURE | 4 | PCBSWFUN | SWAP FUNCTION AREA |
| 60 | (3C) | CHARACTER | 2 | * | RESERVED |
| 62 | (3E) | SIGNED | 2 | PCBSWDCT | DREF COUNT FOR MIGRATED DATA SPACE DREF PAGES DURING SWAP-IN INPUT I/O. |
| Offsets | | | | | |
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 60 | (3C) | STRUCTURE | 4 | PCBIOFUN | DEFINE function area |

| Offsets | | | | | |
|---------|------|------------|-----|------------|---------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 60 | (3C) | BITSTRING | 1 | * | Reserved (PCBPVTYP) |
| 61 | (3D) | UNSIGNED | 3 | PCBIORNG# | Range index of page |

PCB Constants

| Len | Type | Value | Name | Description |
|---------|------|-------|------|-------------|
| Comment | | | | |

PCB QUEUE IDS

CAUTION: DO TO AN RSMDFATA (IPCS) REQUIREMENT, THE QUEUE IDS OF CF AND CE CANNOT BE USED FOR A PCB QUEUE ID.

| | | | | |
|----------------|-----|----|----------|---|
| End of Comment | | | | |
| 1 | HEX | 00 | PCBUNQDN | UNQUEUED |
| 1 | HEX | 10 | PCBLDPQN | LOCAL DEFERRED PCB QUEUE |
| 1 | HEX | 11 | PCBDPQN | DEFERRED PCB QUEUE |
| 1 | HEX | 12 | PCBNPQN | NOTIFICATION PCB QUEUE |
| 1 | HEX | 13 | PCBASPQN | ADDR SPACE CREATE PCB QUEUE |
| 1 | HEX | 14 | PCBCPQN | COMMIT PCB QUEUE |
| 1 | HEX | FD | PCBFLAWN | PCB WAS FOUND FLAWED DURING RECOVERY PROCESSING |

Comment

PCB CHAIN AND INTERNAL QUEUE IDS USED BY IPCS

(THESE MUST BE UNIQUE FROM THE MAINLINE QUEUE IDS ABOVE)

CAUTION: DUE TO AN RSMDFATA (IPCS) REQUIREMENT, THE QUEUE IDS OF CF AND CE CANNOT BE USED FOR A PCB QUEUE ID.

| | | | | |
|----------------|-----|----|----------|--|
| End of Comment | | | | |
| 1 | HEX | C0 | PCBSIPQN | ID FOR THE SWAP INTERNAL PCB QUEUE - FCB BASED |
| 1 | HEX | C1 | PCBSIDQN | ID FOR THE SWAP INTERNAL DREF PCB QUEUE - FCB BASED |
| 1 | HEX | C2 | PCBRDPQN | ID FOR THE RELATED PCB QUEUE - DPQ BASED |
| 1 | HEX | C3 | PCBRLDQN | ID FOR THE RELATED PCB QUEUE - LDPQ BASED |
| 1 | HEX | C4 | PCBRPFQN | ID FOR THE RELATED PCB QUEUE - PFQ PFTE BASED |
| 1 | HEX | C5 | PCBRPDQN | ID FOR THE RELATED PCB QUEUE - PDFQ PFTE BASED |
| 1 | HEX | C6 | PCBRPRQN | ID FOR THE RELATED PCB QUEUE - PRFQ PFTE BASED |
| 1 | HEX | C7 | PCBSPPQN | ID FOR THE SWOUT INTERNAL PCB POOL QUEUE - FCB BASED |
| 1 | HEX | C8 | PCBSPQN | ID FOR THE SWOUT INTERNAL SWS PCB QUEUE - FCB BASED |

Comment

RPB CONTROL BLOCK TYPE FOR PCB

| | | | | |
|----------------|-----|----|---------|-------------------|
| End of Comment | | | | |
| 1 | HEX | 00 | KPCBRPB | PCB TYPE CONSTANT |

PCB Cross Reference

PCB Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|-----------|------------|-----------|-----------|------------|-----------|
| PCB | 0 | | PCBPGTE | 34 | |
| PCBABOVE | 11 | 80 | PCBPRAB | 18 | |
| PCBADISC | F | 80 | PCBPREF | C | 02 |
| PCBAIA | 5C | | PCBPRM | E | 08 |
| PCBASBO | B | 08 | PCBPROG | 40 | |
| PCBBAVQL | C | 01 | PCBPTE | 38 | |
| PCBBELOW | C | 04 | PCBPTEXNA | D | 08 |
| PCBBQPTR | 4 | | PCBPVFLA | 11 | |
| PCBCHGON | E | 80 | PCBPVFLH | 11 | 80 |
| PCBCMALL | 11 | 80 | PCBPVFUN | 3C | |
| PCBCMFG | 11 | 20 | PCBPVTYP | 3C | |
| PCBCMFLA | 11 | | PCBQID | A | |
| PCBCMFUN | 3C | | PCBRB | 24 | |
| PCBCMPFR | 11 | 40 | PCBRDISC | D | 40 |
| PCBCMRVR | 3C | | PCBRPCBQ | 14 | |
| PCBCOM | E | 20 | PCBRVR | 48 | |
| PCBDEFRX | 44 | | PCBRVTEX | 43 | |
| PCBDFRIO | B | 01 | PCBSDH | 2C | |
| PCBDIS | E | 10 | PCBSFFLA | 11 | |
| PCBDSFLA | 11 | | PCBSFINT | 11 | 80 |
| PCBDSVDS | 11 | 80 | PCBSFTE | 24 | |
| PCBEPID | 12 | | PCBSPAGE | B | 04 |
| PCBEXITS | 44 | | PCBSPE | 2C | |
| PCBFAIL | B | 40 | PCBSSRB | 20 | |
| PCBFCB | 24 | | PCBSTATE | 8 | |
| PCBFCBA | B | 80 | PCBSTYPE | 40 | F0 |
| PCBFID | 10 | | PCBSWAPX | 47 | |
| PCBFIX | C | 08 | PCBSWDCT | 3E | |
| PCBFIXHI | C | 80 | PCBSWFUN | 3C | |
| PCBFLGSA | 11 | | PCBTCB | 20 | |
| PCBFLGS1 | B | | PCBTERMX | 46 | |
| PCBFLGS2 | C | | PCBTOP | D | 01 |
| PCBFLGS3 | D | | PCBTYPER | 9 | |
| PCBFLGS4 | E | | PCBUDSX | 40 | |
| PCBFLGS5 | F | | PCBVDI | 5C | |
| PCBFQPTR | 0 | | PCBVDIA | E | 40 |
| PCBFRAUX | D | 20 | PCBVDISC | D | 80 |
| PCBFREAL | D | 10 | PCBVSA | 2C | |
| PCBFUNAR | 3C | | PCBVSA64 | 28 | |
| PCBGDFLA | 11 | | PCBVVSA | 20 | |
| PCBHRAB | 1C | | PCBXMERR | B | 10 |
| PCBINCWS | C | 10 | PCBXPTE | 38 | |
| PCBINNV | E | 02 | PCBXPTNA | D | 08 |
| PCBIOCMX | 45 | | | | |
| PCBIOERR | B | 20 | | | |
| PCBIOFUN | 3C | | | | |
| PCBIORNG# | 3D | | | | |
| PCBIWB | 4C | | | | |
| PCBMEGAP | B | 02 | | | |
| PCBMGFLA | 11 | | | | |
| PCBMGFUN | 3C | | | | |
| PCBMGMPA | 11 | 80 | | | |
| PCBMGMPE | 3C | | | | |
| PCBNODFR | D | 02 | | | |
| PCBNOHLK | E | 04 | | | |
| PCBNOITV | C | 20 | | | |
| PCBNOTRS | D | 04 | | | |
| PCBNOVAL | E | 01 | | | |
| PCBONFRQ | 8 | 80 | | | |
| PCBOUT | C | 40 | | | |
| PCBPDINT | 8 | 40 | | | |
| PCBPFTE | 30 | | | | |
| PCBPFTE64 | 30 | | | | |

PCCA Programming Interface information

Programming Interface information

PCCA

ONLY the following fields are part of the programming interface information:

- PCCACAFM
- PCCACPID
- PCCACPUA

End of Programming Interface information

PCCA Heading Information

Common Name: PHYSICAL CONFIGURATION COMMUNICATION AREA
Macro ID: IHAPCCA
DSECT Name: PCCA
Owning Component: RECONFIGURATION (SC1CZ)
Eye-Catcher ID: PCCA
 Offset: 0
 Length: 4
Storage Attributes: Subpool: 245
 Key: 0
Size: 584 BYTES
Created by: IEAVNIP0
 IEEVCPR
Pointed to by: PCCAV... field of the PCCAVT data area
 PSAPCCAV field of the PSA data area
 PSAPCCAR field of the PSA data area
 PCCAEMSA field of the PCCA data area (receiving routine)
Serialization: DISABLEMENT
Function: CONTAINS INFORMATION ABOUT THE PHUSICAL FACILITIES
 ASSOCIATED WITH EACH PROCESSOR IN THE SYSTEM

PCCA Map

| Offsets | | | | | |
|---------|------|------------|-----|--------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | PCCA | |
| 0 | (0) | CHARACTER | 4 | PCCAPCCA | - CONTROL BLOCK ACRONYM IN EBCDIC |
| 4 | (4) | BITSTRING | 12 | PCCACPID | - CPU ID (CONTAINS SERIAL NUMBER) |
| 16 | (10) | SIGNED | 2 | PCCACPUA | - PHYSICAL CPU ADDRESS |
| 18 | (12) | SIGNED | 2 | PCCACAFM | - BIT MASK CORRESPONDING TO PHYSICAL CPU ADDRESS |
| 20 | (14) | ADDRESS | 4 | PCCATQEP | - TQE POINTER |
| 24 | (18) | ADDRESS | 4 | PCCAPSAV | - VIRTUAL ADDRESS OF PSA |
| 28 | (1C) | ADDRESS | 4 | PCCAPSAR | - ABSOLUTE ADDRESS OF PSA |
| 32 | (20) | BITSTRING | 1 | PCCAISCE | - INTERRUPT SUB-CLASSES TO ENABLE |
| 33 | (21) | BITSTRING | 3 | PCCAMCHF (0) | - MACHINE CHECK FLAGS |
| 33 | (21) | BITSTRING | 1 | | |
| | | 1... | | PCCASMCH | "X'80" - A SOFTWARE-SIMULATED MACHINE CHECK OCCURRED |
| 36 | (24) | SIGNED | 4 | PCCACRG6 (0) | - CONTROL REGISTER 6 |
| 36 | (24) | BITSTRING | 1 | PCCAISCM | - INTERRUPTION SUBCLASS MASK |
| 37 | (25) | ADDRESS | 3 | PCCACR6L | - LOW-ORDER THREE BYTES OF CR 6 |
| 40 | (28) | SIGNED | 4 | PCCASLIH | - NUMBER OF ENTRIES TO THE I/O SLIH |
| 44 | (2C) | SIGNED | 4 | PCCASTPI | - NUMBER OF TPI WITH CC=1 |
| 48 | (30) | SIGNED | 4 | PCCAXSLF | - EXCESSIVE SPIN LENGTH FACTOR. |
| 52 | (34) | SIGNED | 4 | PCCARSPR | - RELATIVE SPEED (X4096) OF THIS PROCESSOR. |
| 56 | (38) | SIGNED | 4 | PCCATRW1 (0) | - TRAP WORD 1. FLAG AND DATA, SET BY SCIXL. |
| 56 | (38) | SIGNED | 2 | PCCATRDA | - TRAP DATA |
| 58 | (3A) | CHARACTER | 1 | PCCATRFL | - TRAP FLAG |
| 59 | (3B) | CHARACTER | 1 | | - RESERVED |
| 60 | (3C) | ADDRESS | 4 | PCCARV88 | - RESERVED |
| 64 | (40) | ADDRESS | 4 | PCCARV89 | - RESERVED |
| 68 | (44) | ADDRESS | 4 | PCCARV90 | - RESERVED |
| 72 | (48) | ADDRESS | 4 | PCCARV91 | - RESERVED |
| 76 | (4C) | ADDRESS | 4 | PCCARV92 | - RESERVED |
| 80 | (50) | ADDRESS | 4 | PCCARV93 | - RESERVED |
| 84 | (54) | ADDRESS | 4 | PCCARV94 | - RESERVED |
| 88 | (58) | ADDRESS | 4 | PCCARV95 | - RESERVED |
| 92 | (5C) | ADDRESS | 4 | PCCARV96 | - RESERVED |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|--------------|--|
| Dec | Hex | | | | |
| 96 | (60) | ADDRESS | 4 | PCCARV97 | - RESERVED |
| 100 | (64) | ADDRESS | 4 | PCCARV98 | - RESERVED |
| 104 | (68) | ADDRESS | 4 | PCCARV99 | - RESERVED |
| 108 | (6C) | ADDRESS | 4 | PCCARV9A | - RESERVED |
| 112 | (70) | ADDRESS | 4 | PCCARV9B | - RESERVED |
| 116 | (74) | ADDRESS | 4 | PCCARV9C | - RESERVED |
| 120 | (78) | ADDRESS | 4 | PCCARV9D | - RESERVED |
| 124 | (7C) | ADDRESS | 4 | PCCARV9E | - RESERVED |
| 128 | (80) | BITSTRING | 4 | PCCATMST (0) | - TIMER STATUS BYTES |
| 128 | (80) | BITSTRING | 1 | PCCATMFL | - FIRST BYTE OF PCCATMST |
| | | 1... | | PCCAINIT | "X'80" - ENTRY HAS BEEN INITIALIZED |
| | | .1.. | | PCCASYNC | "X'40" - CLOCK OUT OF SYNCHRONIZATION |
| | | .1. | | PCCAVKIL | "X'20" - CONFIG CPU SHOULD BE CANCELLED |
| | | ...1 | | PCCAMCC | "X'10" - PROCESSING FOR PERMANENTLY DAMAGED CLOCK COMPARATOR MUST BE DONE |
| | | 1... | | PCCAMINT | "X'08" - PROCESSING FOR CPU TIMER MUST BE DONE |
| | |1.. | | PCCARV02 | "X'04',C'X" - RESERVED |
| | |1. | | PCCARV03 | "X'02',C'X" - RESERVED |
| | |1 | | PCCARV04 | "X'01',C'X" - RESERVED |
| 129 | (81) | BITSTRING | 1 | PCCATODE | - TOD CLOCK ERROR FLAGS |
| | | 1... | | PCCANUTD | "X'80" - CLOCK CANNOT BE USED |
| | | .1.. | | PCCANFTD | "X'40" - CLOCK SHOULD NOT BE RESET |
| | | ..11 1111 | | PCCACTTD | "X'3F" - ERROR COUNT (6 BITS) |
| 130 | (82) | BITSTRING | 1 | PCCACCE | - FLAGS FOR CLOCK COMPARATOR |
| | | 1... | | PCCANUCC | "X'80" - CLOCK COMPARATOR CANNOT BE USED |
| | | .1.. | | PCCANFCC | "X'40" - CLOCK COMPARATOR SHOULD NOT BE RESET |
| | | ..11 1111 | | PCCACTCC | "X'3F" - ERROR COUNT (6 BITS) |
| 131 | (83) | BITSTRING | 1 | PCCAINTE | - FLAGS FOR CPU TIMER |
| | | 1... | | PCCANUIN | "X'80" - CPU TIMER CANNOT BE USED |
| | | .1.. | | PCCANFIN | "X'40" - CPU TIMER SHOULD NOT BE RESET |
| | | ..11 1111 | | PCCACTIN | "X'3F" - ERROR COUNT (6 BITS) |
| 132 | (84) | SIGNED | 4 | PCCARPB | - EXTERNAL CALL SIGP BUFFER |
| | | 1... | | PCCASWTH | "X'80" SWITCH REQUEST |
| | | .1.. | | PCCARV4A | "X'40" RESERVED |
| | | .1. | | PCCARQCK | "X'20" RQCHECK REQUEST |
| | | ...1 | | PCCAGTFR | "X'10" GTF REQUEST |
| | | 1... | | PCCARV4B | "X'08" RESERVED |
| | |1.. | | PCCAMODE | "X'04" MODE REQUEST |
| | |1. | | PCCASTCP | "X'02" STOPCP REQUEST |
| | |1 | | PCCAMEMS | "X'01" MEMSWT REQUEST |
| 136 | (88) | CHARACTER | 16 | PCCAEMSB (0) | - EMERGENCY SIGNAL SIGP BUFFER |
| 136 | (88) | BITSTRING | 4 | PCCAEMSI (0) | - FIRST WORD OF EMS BUFFER |
| 136 | (88) | BITSTRING | 1 | PCCARISP | - CONTAINS PARALLEL/SERIAL REQUEST INDICATOR FOR REMOTE IMMEDIATE SIGNAL |
| | | 1... | | PCCAPARL | "X'80" - PARALLEL REQUEST |
| | | .1.. | | PCCASERL | "X'40" - SERIAL REQUEST |
| | | .1. | | PCCARV06 | "X'20',C'X" - RESERVED |
| | | ...1 | | PCCARV07 | "X'10',C'X" - RESERVED |
| | | 1... | | PCCARV08 | "X'08',C'X" - RESERVED |
| | |1.. | | PCCARV09 | "X'04',C'X" - RESERVED |
| | |1. | | PCCARV10 | "X'02',C'X" - RESERVED |
| | |1 | | PCCARV11 | "X'01',C'X" - RESERVED |
| 137 | (89) | BITSTRING | 1 | PCCAEMS2 | - SECOND BYTE OF PCCAEMSI |
| | | 1... | | PCCASERP | "X'80" - SERIAL PENDING INDICATOR |
| | | .1.. | | PCCARV13 | "X'40',C'X" - RESERVED |
| | | .1. | | PCCARV14 | "X'20',C'X" - RESERVED |
| | | ...1 | | PCCARV15 | "X'10',C'X" - RESERVED |
| | | 1... | | PCCARV16 | "X'08',C'X" - RESERVED |
| | |1.. | | PCCARV17 | "X'04',C'X" - RESERVED |
| | |1. | | PCCARV18 | "X'02',C'X" - RESERVED |
| | |1 | | PCCARV19 | "X'01',C'X" - RESERVED |
| 138 | (8A) | BITSTRING | 1 | PCCAEMS3 | - THIRD BYTE OF PCCAEMSI |
| | | 1... | | PCCASERF | "X'80" - SERIAL REQUEST FAILED |
| | | .1.. | | PCCARV21 | "X'40',C'X" - RESERVED |

PCCA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|----------------|---|
| Dec | Hex | | | | |
| | | ...1 | | PCCARV22 | "X'20',,C'X'" - RESERVED |
| | | ...1 | | PCCARV23 | "X'10',,C'X'" - RESERVED |
| | | 1... | | PCCARV24 | "X'08',,C'X'" - RESERVED |
| | |1.. | | PCCARV25 | "X'04',,C'X'" - RESERVED |
| | |1.. | | PCCARV26 | "X'02',,C'X'" - RESERVED |
| | |1 | | PCCARV27 | "X'01',,C'X'" - RESERVED |
| 139 | (8B) | BITSTRING | 1 | PCCARMSB | - CONTAINS RMS INDICATOR |
| | | 1... | | PCCARV28 | "X'80',,C'X'" - RESERVED |
| | | .1.. | | PCCARV29 | "X'40',,C'X'" - RESERVED |
| | | .1.. | | PCCARV30 | "X'20',,C'X'" - RESERVED |
| | | ...1 | | PCCARV31 | "X'10',,C'X'" - RESERVED |
| | | 1... | | PCCARV32 | "X'08',,C'X'" - RESERVED |
| | |1.. | | PCCARV33 | "X'04',,C'X'" - RESERVED |
| | |1.. | | PCCARV34 | "X'02',,C'X'" - RESERVED |
| | |1 | | PCCARMS | "X'01'" - SIGP WAS ISSUED VIA RMS |
| 140 | (8C) | ADDRESS | 4 | PCCAEMSP | - REMOTE IMMEDIATE SIGNAL PARAMETER ADDRESS |
| 144 | (90) | ADDRESS | 4 | PCCAEMSE | - REMOTE IMMEDIATE SIGNAL RECEIVING ROUTINE ENTRY POINT ADDRESS |
| 148 | (94) | ADDRESS | 4 | PCCAEMSA | - PCCA ADDRESS OF THE RECEIVING ROUTINE |
| 152 | (98) | ADDRESS | 4 | PCCAPWAV | - VIRTUAL ADDRESS OF MCH PROCESSOR WORK AREA |
| 156 | (9C) | ADDRESS | 4 | PCCAPWAR | - REAL ADDRESS OF MCH PROCESSOR WORK AREA |
| 160 | (A0) | ADDRESS | 4 | PCCALRBV | - VIRTUAL ADDRESS OF MCH LOGREC BUFFER |
| 164 | (A4) | ADDRESS | 4 | PCCALRBR | - REAL ADDRESS OF MCH LOGREC BUFFER |
| 168 | (A8) | BITSTRING | 1 | PCCARIOS (208) | - RESERVED FOR IOS USE |
| 376 | (178) | BITSTRING | 1 | PCCAATTR | - PROCESSOR ATTRIBUTES |
| | | 1... | | PCCACPUM | "X'80'" - INDICATOR THAT DEAD CPU HAD A MALFUNCTION |
| | | .1.. | | PCCAIO | "X'40'" - PROCESSOR HAS I/O CAPABILITY |
| | | .1.. | | PCCANPFA | "X'20'" - WHEN SET, PAGE FAULT ASSIST SHOULD NOT BE USED |
| | | ...1 | | PCCAR101 | "X'10',,C'X'" - RESERVED |
| | | 1... | | PCCAR102 | "X'08',,C'X'" - RESERVED |
| | |1.. | | PCCAR103 | "X'04',,C'X'" - RESERVED |
| | |1.. | | PCCAR104 | "X'02',,C'X'" - RESERVED |
| | |1 | | PCCAR105 | "X'01',,C'X'" - RESERVED |
| 377 | (179) | BITSTRING | 1 | PCCAMFA | - MALFUNCTION ALERT FLAGS |
| | | 1... | | PCCASMFA | "X'80'" - SIMULATED MALFUNCTION ALERT |
| 378 | (17A) | BITSTRING | 1 | PCCAACRN | - CAUSE OF ACR |
|  |  | .... .... |  | PCCAUKUN | "X'00'" UNKNOWN ERROR |
| | |1 | | PCCAUMFA | "X'01'" MALFUNCTION ALERT, CPU CHECKSTOPPED |
| | |1.. | | PCCAUIPT | "X'02'" INSTRUCTION PROCESSING DAMAGE THRESHOLD |
| | |1.. | | PCCAUSDT | "X'03'" SYSTEM DAMAGE THRESHOLD |
| | |1.. | | PCCAUIVT | "X'04'" INVALID REGISTER OR PSW THRESHOLD |
| | |1.1 | | PCCAUTCT | "X'05'" TIME OF DAY CLOCK DAMAGE THRESHOLD |
| | |1.. | | PCCAUPPT | "X'06'" PROCESSOR TIMER DAMAGE THRESHOLD |
| | |111 | | PCCAUCCT | "X'07'" CLOCK COMPARATOR DAMAGE THRESHOLD |
| | | 1... | | PCCAUPST | "X'08'" PRIMARY SYNC DAMAGE THRESHOLD |
| | | 1.1 | | PCCAUKDT | "X'09'" ETR ATTACHMENT DAMAGE THRESHOLD |
| | | 1.1 | | PCCAUSLT | "X'0A'" SWITCH TO LOCAL THRESHOLD |
| | | 1.11 | | PCCAUESL | "X'0B'" EXCESSIVE SPIN LOOP |
| | | 11.. | | PCCAUTCF | "X'0C'" TOD CLOCK SYNCHRONIZATION FAILURE |
| | | 11.1 | | PCCAUKDT | "X'0D'" MALFUNCTION OF DAT HARDWARE |
| | | 111. | | PCCAUSCF | "X'0E'" TOD CLOCK COULD NOT BE SYNCHRONIZED TO ETR |
| | | 1111 | | PCCAUKUM | "X'0F'" UNRECOVERABLE MACHINE ERROR |
| 379 | (17B) | BITSTRING | 1 | PCCARCFF | Reconfig flags. Serialized by reconfig ENQ |
| | | 1... | | PCCACWLM | "X'80'" CPU on/offline initiated by WLM |
| 380 | (17C) | SIGNED | 4 | PCCARV36 | - RESERVED |
| 384 | (180) | BITSTRING | 200 | | - RESERVED |
| 384 | (180) | X'248' | 0 | PCCAEND | *** End of PCCA |

PCCA Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|-----------|------------|-----------|----------|------------|-----------|
| PCCA | 0 | | PCCAPWAR | 9C | |
| PCCAACRN | 17A | 0 | PCCAPWAV | 98 | |
| PCCAATTTR | 178 | 0 | PCCARCFF | 17B | 0 |
| PCCACAFM | 12 | 0 | PCCARIOS | A8 | |
| PCCACCE | 82 | 0 | PCCARISP | 88 | 0 |
| PCCACPID | 4 | 0 | PCCARMS | 8B | 1 |
| PCCACPUA | 10 | 0 | PCCARMSB | 8B | 0 |
| PCCACPUM | 178 | 80 | PCCARPB | 84 | 0 |
| PCCACRG6 | 24 | | PCCARQCK | 84 | 20 |
| PCCACR6L | 25 | | PCCARSPR | 34 | 0 |
| PCCACTCC | 82 | 3F | PCCARV02 | 80 | 4 |
| PCCACTIN | 83 | 3F | PCCARV03 | 80 | 2 |
| PCCACTTD | 81 | 3F | PCCARV04 | 80 | 1 |
| PCCACWLM | 17B | 80 | PCCARV06 | 88 | 20 |
| PCCAEMSA | 94 | | PCCARV07 | 88 | 10 |
| PCCAEMSB | 88 | | PCCARV08 | 88 | 8 |
| PCCAEMSE | 90 | | PCCARV09 | 88 | 4 |
| PCCAEMSI | 88 | | PCCARV10 | 88 | 2 |
| PCCAEMSP | 8C | | PCCARV11 | 88 | 1 |
| PCCAEMS2 | 89 | 0 | PCCARV13 | 89 | 40 |
| PCCAEMS3 | 8A | 0 | PCCARV14 | 89 | 20 |
| PCCAEND | 180 | 248 | PCCARV15 | 89 | 10 |
| PCCAGTFR | 84 | 10 | PCCARV16 | 89 | 8 |
| PCCAINIT | 80 | 80 | PCCARV17 | 89 | 4 |
| PCCAINTE | 83 | 0 | PCCARV18 | 89 | 2 |
| PCCAIO | 178 | 40 | PCCARV19 | 89 | 1 |
| PCCAISCE | 20 | 0 | PCCARV21 | 8A | 40 |
| PCCAISCM | 24 | 0 | PCCARV22 | 8A | 20 |
| PCCAKADT | 17A | 9 | PCCARV23 | 8A | 10 |
| PCCAKCCT | 17A | 7 | PCCARV24 | 8A | 8 |
| PCCAKDAT | 17A | D | PCCARV25 | 8A | 4 |
| PCCAKESL | 17A | B | PCCARV26 | 8A | 2 |
| PCCAKIPT | 17A | 2 | PCCARV27 | 8A | 1 |
| PCCAKIVT | 17A | 4 | PCCARV28 | 8B | 80 |
| PCCAKMFA | 17A | 1 | PCCARV29 | 8B | 40 |
| PCCAKPST | 17A | 8 | PCCARV30 | 8B | 20 |
| PCCAKPTT | 17A | 6 | PCCARV31 | 8B | 10 |
| PCCAKSCF | 17A | E | PCCARV32 | 8B | 8 |
| PCCAKSDT | 17A | 3 | PCCARV33 | 8B | 4 |
| PCCAKSLT | 17A | A | PCCARV34 | 8B | 2 |
| PCCAKTCF | 17A | C | PCCARV36 | 17C | 0 |
| PCCAKTCT | 17A | 5 | PCCARV4A | 84 | 40 |
| PCCAKUKN | 17A | 0 | PCCARV4B | 84 | 8 |
| PCCAKUME | 17A | F | PCCARV88 | 3C | |
| PCCALRBR | A4 | | PCCARV89 | 40 | |
| PCCALRBV | A0 | | PCCARV9A | 6C | |
| PCCAMCC | 80 | 10 | PCCARV9B | 70 | |
| PCCAMCHF | 21 | | PCCARV9C | 74 | |
| PCCAMEMS | 84 | 1 | PCCARV9D | 78 | |
| PCCAMFA | 179 | 0 | PCCARV9E | 7C | |
| PCCAMINT | 80 | 8 | PCCARV90 | 44 | |
| PCCAMODE | 84 | 4 | PCCARV91 | 48 | |
| PCCANFCC | 82 | 40 | PCCARV92 | 4C | |
| PCCANFIN | 83 | 40 | PCCARV93 | 50 | |
| PCCANFTD | 81 | 40 | PCCARV94 | 54 | |
| PCCANPFA | 178 | 20 | PCCARV95 | 58 | |
| PCCANUCC | 82 | 80 | PCCARV96 | 5C | |
| PCCANUIN | 83 | 80 | PCCARV97 | 60 | |
| PCCANUTD | 81 | 80 | PCCARV98 | 64 | |
| PCCAPARL | 88 | 80 | PCCARV99 | 68 | |
| PCCAPCCA | 0 | D7C3C3C1 | PCCAR101 | 178 | 10 |
| PCCAPSAR | 1C | | PCCAR102 | 178 | 8 |
| PCCAPSAV | 18 | | PCCAR103 | 178 | 4 |

PCCA Cross Reference

| Name | Hex Offset | Hex Value |
|----------|---------------|--------------|
| PCCAR104 | 178 | 2 |
| PCCAR105 | 178 | 1 |
| PCCASERF | 8A | 80 |
| PCCASERL | 88 | 40 |
| PCCASERP | 89 | 80 |
| PCCASLIH | 28 | 0 |
| PCCASMCH | 21 | 80 |
| PCCASMFA | 179 | 80 |
| PCCASTCP | 84 | 2 |
| PCCASTPI | 2C | 0 |
| PCCASWTH | 84 | 80 |
| PCCASYNC | 80 | 40 |
| PCCATMFL | 80 | 0 |
| PCCATMST | 80 | |
| PCCATODE | 81 | 0 |
| PCCATQEP | 14 | |
| PCCATRDA | 38 | |
| PCCATRFL | 3A | |
| PCCATRW1 | 38 | |
| PCCAVKIL | 80 | 20 |
| PCCAXSLF | 30 | 0 |

PCCAVT Programming Interface information

Programming Interface information

PCCAVT

End of Programming Interface information

PCCAVT Heading Information

Common Name: Physical Configuration Communication Area Vector Table
Macro ID: IHAPCCAT
DSECT Name: PCCAVT
Owning Component: MP reconfiguration (SC1CZ)
Eye-Catcher ID: None
Storage Attributes: Subpool: 245
 Key: 0
Size: 64 bytes
Created by: IEAVNIP0
Pointed to by: CVTPCCAT field of the CVT data area.
Serialization: Disablement for external interrupts
Function: Contains the address of a PCCA for each CPU.

PCCAVT Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|------------------------------|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | PCCAVT | |
| 0 | (0) | ADDRESS | 4 | PCCAT00P | - ADDRESS OF PCCA FOR CPU 0 |
| 4 | (4) | ADDRESS | 4 | PCCAT01P | - ADDRESS OF PCCA FOR CPU 1 |
| 8 | (8) | ADDRESS | 4 | PCCAT02P | - ADDRESS OF PCCA FOR CPU 2 |
| 12 | (C) | ADDRESS | 4 | PCCAT03P | - ADDRESS OF PCCA FOR CPU 3 |
| 16 | (10) | ADDRESS | 4 | PCCAT04P | - ADDRESS OF PCCA FOR CPU 4 |
| 20 | (14) | ADDRESS | 4 | PCCAT05P | - ADDRESS OF PCCA FOR CPU 5 |
| 24 | (18) | ADDRESS | 4 | PCCAT06P | - ADDRESS OF PCCA FOR CPU 6 |
| 28 | (1C) | ADDRESS | 4 | PCCAT07P | - ADDRESS OF PCCA FOR CPU 7 |
| 32 | (20) | ADDRESS | 4 | PCCAT08P | - ADDRESS OF PCCA FOR CPU 8 |
| 36 | (24) | ADDRESS | 4 | PCCAT09P | - ADDRESS OF PCCA FOR CPU 9 |
| 40 | (28) | ADDRESS | 4 | PCCAT10P | - ADDRESS OF PCCA FOR CPU 10 |
| 44 | (2C) | ADDRESS | 4 | PCCAT11P | - ADDRESS OF PCCA FOR CPU 11 |
| 48 | (30) | ADDRESS | 4 | PCCAT12P | - ADDRESS OF PCCA FOR CPU 12 |
| 52 | (34) | ADDRESS | 4 | PCCAT13P | - ADDRESS OF PCCA FOR CPU 13 |
| 56 | (38) | ADDRESS | 4 | PCCAT14P | - ADDRESS OF PCCA FOR CPU 14 |
| 60 | (3C) | ADDRESS | 4 | PCCAT15P | - ADDRESS OF PCCA FOR CPU 15 |
| 60 | (3C) | X'40' | 0 | PCCATEND | *** END OF PCCAVT |

PCCAVT Cross Reference

| Name | Hex Offset | Hex Value |
|----------|------------|-----------|
| PCCATEND | 3C | 40 |
| PCCAT00P | 0 | |
| PCCAT01P | 4 | |
| PCCAT02P | 8 | |
| PCCAT03P | C | |
| PCCAT04P | 10 | |
| PCCAT05P | 14 | |
| PCCAT06P | 18 | |
| PCCAT07P | 1C | |
| PCCAT08P | 20 | |
| PCCAT09P | 24 | |
| PCCAT10P | 28 | |
| PCCAT11P | 2C | |
| PCCAT12P | 30 | |
| PCCAT13P | 34 | |
| PCCAT14P | 38 | |
| PCCAT15P | 3C | |
| PCCAVT | 0 | |

PCCB Heading Information

Common Name: Private Catalog Control Block
Macro ID: IEFPCCB
DSECT Name: IEFPCCB
Owning Component: Allocation/unallocation (SC1B4)
Eye-Catcher ID: PCCB
Offset: Offset 0 and length 4
Size: 176 bytes
Created by: IEFAB4EF
Pointed to by: JSCBPCC field of the JSCB data area
Serialization: The major name is SYSZPCCB and the minor name is PCCB.
 The scope of the resource is step.
Function: Contains information relating to a private catalog of a job.

PCCB Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 176 | IEFPCCB | PVT CAT CONTROL BLOCK |
| 0 | (0) | CHARACTER | 4 | PCCACRO | ACRONYM OF BLOCK 'PCCB' |
| 4 | (4) | ADDRESS | 4 | PCCNEXTP | ADDR OF NEXT PCCB OR ZERO |
| 8 | (8) | ADDRESS | 4 | PCCPREVP | ADDR OF PREVIOUS PCCB OR 0 |
| 12 | (C) | CHARACTER | 4 | PCCSTATS | PCCB INDICATORS |
| 12 | (C) | CHARACTER | 1 | PCCSTAT1 | STATUS BYTE NUMBER 1 |
| | | 1... .. | | PCCSTEP | CATALOG IS A STEPCAT |
| | | .1.. .. | | PCCALIAS | CTLG CON ALIAS FOR DSNAME |
| | | ..1. | | PCCACTIV | CATALOG ALLOCATED - ACTIVE |
| | | ...1 | | PCOSCVOL | CATALOG IS AN OS CVOL |
| | | 1... | | PCCTCL | TEMPORARILY CLOSED |
| | |1.. | | PCCALCAS | CATALOG IS ALREADY ALLOCATED BY CAS |
| | |11 | | * | NOT USED |
| 13 | (D) | BITSTRING | 1 | PCCSTAT2 | NOT USED |
| 14 | (E) | BITSTRING | 1 | PCCSTAT3 | NOT USED |
| 15 | (F) | BITSTRING | 1 | PCCSTAT4 | NOT USED |
| 16 | (10) | ADDRESS | 4 | PCCACBP | ADDR OF ACB FOR PVT CAT |
| 20 | (14) | CHARACTER | 8 | PCCDDNAM | DD NAME FOR DYN ALLOC CTLG |
| 28 | (1C) | CHARACTER | 44 | PCCDSNAM | CATALOG DATA SET NAME |
| 72 | (48) | CHARACTER | 44 | PCCTGCON | CATALOG CONNECTOR (ALIAS) |
| 116 | (74) | CHARACTER | 6 | PCVOLSER | CVOL VOLUME SERIAL |
| 122 | (7A) | CHARACTER | 2 | PCCRSVD1 | NOT USED |
| 124 | (7C) | ADDRESS | 4 | PCCLACBP | ACB ADDRESS OF TEMPORARILY CLOSED CATALOG |
| 128 | (80) | CHARACTER | 48 | PCCRSVD2 | NOT USED |

PCCB Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| IEFPCCB | 0 | | PCCRSVD2 | 80 | |
| PCCACBP | 10 | | PCCSTATS | C | |
| PCCACRO | 0 | | PCCSTAT1 | C | |
| PCCACTIV | C | 20 | PCCSTAT2 | D | |
| PCCALCAS | C | 04 | PCCSTAT3 | E | |
| PCCALIAS | C | 40 | PCCSTAT4 | F | |
| PCCDDNAM | 14 | | PCCSTEP | C | 80 |
| PCCDSNAM | 1C | | PCCTCL | C | 08 |
| PCCLACBP | 7C | | PCCTGCON | 48 | |
| PCCNEXTP | 4 | | PCOSCVOL | C | 10 |
| PCCPREVP | 8 | | PCVOLSER | 74 | |
| PCCRSVD1 | 7A | | | | |

PCCW Heading Information

Common Name: ASM Paging Channel Command Work Area
Macro ID: ILRPCCW
DSECT Name: PCCW
Owning Component: Auxiliary Storage Manager (SC1CW)
Eye-Catcher ID: PCCW
 Offset: 0
 Length: 4
Storage Attributes: Subpool: 245
 Key: 0
 Residency: Above 16M
Size: 128 bytes
Created by: ILROPS00
Pointed to by: IORPCCW field of the IORB data area
 PCCWPCCW field of the PCCW data area
 ASMPCCWQ field of the ASMT data area
Serialization: The PCCW is serialized by the PCCW available queue. The PCCW is kept on an available queue and removed when needed.
Function: PCCW describes the string of channel command words which are passed by the I/O supervisor to the channel for I/O processing of a page.

PCCW Map

| Offsets | | | | | |
|---------|------|------------|-----|------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 128 | PCCW | Paging Channel Command Workarea |
| 0 | (0) | CHARACTER | 4 | PCCWID | PCCW identifier 'PCCW' |
| 4 | (4) | UNSIGNED | 1 | PCCWSECT | Sector for Set Sector CCW |
| 5 | (5) | CHARACTER | 1 | PCCWFLGS | Internal flags |
| | | 1... | | PCCWFERR | X'80' = I/O error |
| | | .111 1111 | | * | Reserved |
| 6 | (6) | CHARACTER | 2 | PCCWRSV1 | Reserved |
| 8 | (8) | ADDRESS | 4 | PCCWPCCW | Next PCCW address |
| 12 | (C) | ADDRESS | 4 | PCCWAIA | Associated AIA address |
| 16 | (10) | ADDRESS | 4 | PCCWIORB | IORB address |
| 20 | (14) | ADDRESS | 4 | PCCWREAL | Real address of this PCCW |
| 24 | (18) | CHARACTER | 8 | PCCWIDAW | Extended IDAW for 64-bit I/O. Only used when running in ESAME mode. |
| 32 | (20) | CHARACTER | 24 | PCCWRSV3 | Reserved - used by extended CKD format, not by this format |
| 56 | (38) | CHARACTER | 8 | PCCWCHHR | Full seek address - MBBCCHHR |
| 56 | (38) | CHARACTER | 1 | PCCWM | Extent number |
| 57 | (39) | CHARACTER | 2 | PCCWBB | Bin number |
| 59 | (3B) | CHARACTER | 2 | PCCWCC | Cylinder number |
| 61 | (3D) | CHARACTER | 2 | PCCWHH | Track (head) number |
| 63 | (3F) | CHARACTER | 1 | PCCWR | Record number |
| 64 | (40) | CHARACTER | 8 | PCCWSEEK | Seek CCW |
| 64 | (40) | CHARACTER | 1 | PCCWSK | Seek opcode |
| 65 | (41) | CHARACTER | 1 | PCCWSKFG | Seek flags |
| 66 | (42) | CHARACTER | 2 | PCCWSKCT | Seek count |
| 68 | (44) | ADDRESS | 4 | PCCWSKAD | Seek CCW address |
| 72 | (48) | CHARACTER | 8 | PCCWSSEC | Set Sector CCW |
| 72 | (48) | CHARACTER | 1 | PCCWSS | Set Sector opcode |
| 73 | (49) | CHARACTER | 1 | PCCWSSFG | Set Sector flags |
| 74 | (4A) | CHARACTER | 2 | PCCWSSCT | Set Sector count |
| 76 | (4C) | ADDRESS | 4 | PCCWSSAD | Set Sector CCW address |

PCCW Map

| Offsets | | | | | |
|---------|------|------------|-----|------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 80 | (50) | CHARACTER | 8 | PCCWSRCH | Search ID Equal CCW |
| 80 | (50) | CHARACTER | 1 | PCCWSIDE | Search ID Equal opcode |
| 81 | (51) | CHARACTER | 1 | PCCWSIFG | Search ID Equal flags |
| 82 | (52) | CHARACTER | 2 | PCCWSICT | Search ID Equal count |
| 84 | (54) | ADDRESS | 4 | PCCWSIAD | Search ID Equal CCW address |
| 88 | (58) | CHARACTER | 8 | PCCWTIC | TIC CCW |
| 88 | (58) | CHARACTER | 1 | PCCWT | TIC opcode |
| 89 | (59) | CHARACTER | 1 | PCCWTFG | TIC flags |
| 90 | (5A) | CHARACTER | 2 | PCCWTCT | TIC count |
| 92 | (5C) | ADDRESS | 4 | PCCWTAD | TIC CCW address |
| 96 | (60) | CHARACTER | 8 | PCCWRW | Read/write CCW |
| 96 | (60) | CHARACTER | 1 | PCCWRDWT | Read/Write opcode |
| 97 | (61) | CHARACTER | 1 | PCCWRWFG | Read/Write flags |
| 98 | (62) | CHARACTER | 2 | PCCWCNT | Read/Write count |
| 100 | (64) | ADDRESS | 4 | PCCWADDR | Read/Write CCW address |
| 104 | (68) | CHARACTER | 8 | PCCWNOP | NOP (or TIC) CCW |
| 104 | (68) | CHARACTER | 1 | PCCWN | NOP opcode |
| 105 | (69) | CHARACTER | 1 | PCCWNFG | NOP flags |
| 106 | (6A) | CHARACTER | 2 | PCCWNCT | NOP count |
| 108 | (6C) | ADDRESS | 4 | PCCWNAD | NOP CCW address |
| 112 | (70) | CHARACTER | 10 | PCCWSPPD | Set Paging Parameters data |
| 112 | (70) | CHARACTER | 1 | PCCWSPFL | Set Paging Parameters flag byte |
| | | 1... | | PCCWSPSQ | Sequential flag |
| | | .1... | | PCCWSPR1 | Read once flag |
| 113 | (71) | CHARACTER | 1 | PCCWSPBC | Set Paging Parameters block count. Used when sequential flag is set, otherwise is zero. |
| 114 | (72) | CHARACTER | 2 | PCCWSPCA | Set Paging Parameters base cylinder address (always zero) |
| 116 | (74) | CHARACTER | 2 | PCCWRSV4 | Reserved |
| 118 | (76) | CHARACTER | 4 | PCCWSPSK | Set Paging Parameters seek address |
| 122 | (7A) | CHARACTER | 6 | PCCWRSVD | Reserved |
| 128 | (80) | CHARACTER | 0 | * | |

| Offsets | | | | | |
|---------|------|------------|-----|------------|---------------------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 32 | (20) | STRUCTURE | 64 | PCCWECKD | PCCW for extended architecture |
| 32 | (20) | CHARACTER | 32 | PCCWDEFD | Define Extent data |
| 32 | (20) | CHARACTER | 1 | PCCWDMSK | Define Extent mask byte |
| 33 | (21) | CHARACTER | 1 | PCCWDATR | Define Extent attribute byte |
| 34 | (22) | UNSIGNED | 2 | PCCWDSZ | Define Extent record size |
| 36 | (24) | CHARACTER | 3 | PCCWDRSV | Reserved |
| 39 | (27) | CHARACTER | 1 | PCCWGAEX | Global attributes extended byte |
| | | 1111 11.. | | * | Unused |
| | |1. | | PCCWEP | Extended parameter |
| | |1 | | * | Reserved |
| 40 | (28) | CHARACTER | 4 | PCCWCCHB | Beginning CCHH of Define Extent |
| 44 | (2C) | CHARACTER | 4 | PCCWCCHC | Ending CCHH of Define Extent |
| 48 | (30) | CHARACTER | 9 | * | Unused portion of DX |
| 57 | (39) | CHARACTER | 1 | PCCWIOP | I/O priority |
| 58 | (3A) | CHARACTER | 6 | * | Unused portion of DX |
| 64 | (40) | CHARACTER | 16 | PCCWLOCD | Locate Record data |
| 64 | (40) | CHARACTER | 1 | PCCWLOPB | Locate Record operation byte |
| 65 | (41) | CHARACTER | 1 | PCCWLAUX | Locate Record auxiliary byte |
| 66 | (42) | UNSIGNED | 2 | PCCWLREC | Number of records |
| 68 | (44) | CHARACTER | 4 | PCCWLSEK | Seek address |
| 72 | (48) | CHARACTER | 5 | PCCWLSRC | Search argument |
| 77 | (4D) | CHARACTER | 1 | PCCWLSEC | Sector number |
| 78 | (4E) | UNSIGNED | 2 | PCCWLTRN | Transfer length factor |
| 80 | (50) | CHARACTER | 8 | PCCWDEFE | Define Extent CCW |
| 80 | (50) | CHARACTER | 1 | PCCWDEOP | Define Extent opcode |
| 81 | (51) | CHARACTER | 1 | PCCWDEFG | Define Extent flag |
| 82 | (52) | UNSIGNED | 2 | PCCWDECT | Define Extent count |
| 84 | (54) | ADDRESS | 4 | PCCWDEAD | Define Extent data address |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|----------------------------|
| Dec | Hex | | | | |
| 88 | (58) | CHARACTER | 8 | PCCWLOCR | Locate Record CCW |
| 88 | (58) | CHARACTER | 1 | PCCWLROP | Locate Record opcode |
| 89 | (59) | CHARACTER | 1 | PCCWLRFG | Locate Record flag |
| 90 | (5A) | CHARACTER | 2 | PCCWLRCT | Locate Record count |
| 92 | (5C) | ADDRESS | 4 | PCCWLRAD | Locate Record data address |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|-------------------------------|
| Dec | Hex | | | | |
| 64 | (40) | STRUCTURE | 8 | PCCWSETP | Set Paging Parameters CCW |
| 64 | (40) | CHARACTER | 1 | PCCWSPOP | Set Paging Parameters opcode |
| 65 | (41) | CHARACTER | 1 | PCCWSPFG | Set Paging Parameters flag |
| 66 | (42) | CHARACTER | 2 | PCCWSPCT | Set Paging Parameters count |
| 68 | (44) | ADDRESS | 4 | PCCWSPAD | Set Paging Parameters address |

PCCW Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| PCCW | 0 | | PCCWNAD | 6C | |
| PCCWADDR | 64 | | PCCWNCT | 6A | |
| PCCWAIA | C | | PCCWNFG | 69 | |
| PCCWBB | 39 | | PCCWNOP | 68 | |
| PCCWCC | 3B | | PCCWPCCW | 8 | |
| PCCWCCHB | 28 | | PCCWR | 3F | |
| PCCWCCHC | 2C | | PCCWRDWT | 60 | |
| PCCWCHHR | 38 | | PCCWREAL | 14 | |
| PCCWCNT | 62 | | PCCWRSVD | 7A | |
| PCCWDATR | 21 | | PCCWRSV1 | 6 | |
| PCCWDEAD | 54 | | PCCWRSV3 | 20 | |
| PCCWDECT | 52 | | PCCWRSV4 | 74 | |
| PCCWDEFD | 20 | | PCCWRW | 60 | |
| PCCWDEFE | 50 | | PCCWRWFG | 61 | |
| PCCWDEFG | 51 | | PCCWSECT | 4 | |
| PCCWDEOP | 50 | | PCCWSEEK | 40 | |
| PCCWDMSK | 20 | | PCCWSETP | 40 | |
| PCCWDRSV | 24 | | PCCWSIAD | 54 | |
| PCCWDSZ | 22 | | PCCWSICT | 52 | |
| PCCWECKD | 20 | | PCCWSIDE | 50 | |
| PCCWEP | 27 | 02 | PCCWSIFG | 51 | |
| PCCWFERR | 5 | 80 | PCCWSK | 40 | |
| PCCWFLGS | 5 | | PCCWSKAD | 44 | |
| PCCWGAEX | 27 | | PCCWSKCT | 42 | |
| PCCWHH | 3D | | PCCWSKFG | 41 | |
| PCCWID | 0 | | PCCWSPAD | 44 | |
| PCCWIDAW | 18 | | PCCWSPBC | 71 | |
| PCCWIOP | 39 | | PCCWSPCA | 72 | |
| PCCWIORB | 10 | | PCCWSPCT | 42 | |
| PCCWLAUX | 41 | | PCCWSPFG | 41 | |
| PCCWLOCD | 40 | | PCCWSPFL | 70 | |
| PCCWLOCR | 58 | | PCCWSPOP | 40 | |
| PCCWLOPB | 40 | | PCCWSPPD | 70 | |
| PCCWLRAD | 5C | | PCCWSPR1 | 70 | 40 |
| PCCWLRCT | 5A | | PCCWSPSK | 76 | |
| PCCWLREC | 42 | | PCCWSPSQ | 70 | 80 |
| PCCWLRFG | 59 | | PCCWSRCH | 50 | |
| PCCWLROP | 58 | | PCCWSS | 48 | |
| PCCWLSEC | 4D | | PCCWSSAD | 4C | |
| PCCWLSEK | 44 | | PCCWSSCT | 4A | |
| PCCWLSRC | 48 | | PCCWSSEC | 48 | |
| PCCWLTRN | 4E | | PCCWSSFG | 49 | |
| PCCWM | 38 | | PCCWT | 58 | |
| PCCWN | 68 | | PCCWTAD | 5C | |

PCCW Cross Reference

| Name | Hex Offset | Hex Value |
|---------|---------------|--------------|
| PCCWTCT | 5A | |
| PCCWTFG | 59 | |
| PCCWTIC | 58 | |

PCDPARMS Heading Information

Common Name: PCDALT Parameter list (PCDPARMS)
Macro ID: IEFZB459
DSECT Name: N/A
Owning Component: SC1B4
Eye-Catcher ID: N/A
 Offset: N/A
 Length: N/A
Storage Attributes: Main Storage: N/A
 Virtual Storage: N/A
 Auxiliary Storage: N/A
 Subpool: N/A
 Key: N/A
 Data Space: N/A
 Residency: N/A
Size: N/A
Created by: PCDPARMS is created by the Allocation Address
 Space Initialization routine (IEFHB411).
FREED BY: PCDPARMS is never freed.
STORAGE: Subpool 231, key 0 storage (fetch protected
 extended CSA).
Pointed to by: N/A
Serialization: None.
Function: This macro provides a symbolic mapping of
 the parameter list and the automatic data
 area to be passed to IEFHB410 via the
 PCDALT macro.

PCDPARMS Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 72 | PCDPARMS | PCDALT PARMLIST |
| 0 | (0) | CHARACTER | 24 | PCDINPUT | INPUT TO DALT MANAGER |
| 0 | (0) | UNSIGNED | 2 | PCDUNIT1 | Unit address, swap-from unit when PCDDSWAP set |
| 2 | (2) | UNSIGNED | 2 | PCDUNIT2 | Swap-to unit for DDR swap |
| 4 | (4) | UNSIGNED | 2 | PCDASID | CURRENT ASID |
| 6 | (6) | SIGNED | 2 | PCDCOUNT | UPDATE VALUE |
| 8 | (8) | UNSIGNED | 2 | PCDFCODE | Function code |
| | | 1... .. | | PCDUDALT | UPDATE DALTUSE COUNT |
| | | .1.. .. | | PCDCNT | GET TOTAL DALTUSE FOR UNIT |
| | | ..1. | | PCDCNTA | GET DALTUSE FOR THIS UNIT/ASID |
| | | ...1 | | PCDCDALT | CLEAR DALT |
| | | 1... | | PCDDSWAP | Swap DALTs for DDR swap |
| 8 | (8) | BITSTRING | 1 | PCDRSV00 | Reserved |
| 10 | (A) | CHARACTER | 2 | PCDRSV01 | RESERVED |
| 12 | (C) | UNSIGNED | 4 | PCDRCNT | TOTAL DALTUSE FOR UNIT |
| 16 | (10) | UNSIGNED | 4 | PCDRCNTA | TOTAL DALTUSE FOR UNIT/ASID |
| 20 | (14) | CHARACTER | 4 | PCDRSV02 | RESERVED |
| 24 | (18) | CHARACTER | 48 | PCDAUTO | AUTOMATIC DATA AREA |

PCDPARMS Cross Reference

PCDPARMS Cross Reference

| Name | Hex Offset | Hex Value |
|----------|---------------|--------------|
| PCDASID | 4 | |
| PCDAUTO | 18 | |
| PCDCDALT | 8 | 10 |
| PCDCNT | 8 | 40 |
| PCDCNTA | 8 | 20 |
| PCDCOUNT | 6 | |
| PCDDSWAP | 8 | 08 |
| PCDFCODE | 8 | |
| PCDINPUT | 0 | |
| PCDPARMS | 0 | |
| PCDRCNT | C | |
| PCDRCNTA | 10 | |
| PCDRSV00 | 8 | |
| PCDRSV01 | A | |
| PCDRSV02 | 14 | |
| PCDUDALT | 8 | 80 |
| PCDUNIT1 | 0 | |
| PCDUNIT2 | 2 | |

PCRA Heading Information

Common Name: Program Call Recovery Area
Macro ID: IHAPCRA
DSECT Name: PCRA
Owning Component: PC/AUTH (SCXMS)
Eye-Catcher ID: None
Subpool and Key: None, key 0
Size: 24 bytes
Created by: PC/Auth service routines issuing SETFRR
Pointed to by: PCRAPTR in each PC/Auth service routine; PCRAMAIN
Serialization: Serialized (input) by the PC/Auth local lock.
 Accessable only when the PC/Auth recovery environment exists.
Function: Describes the FRR parameter area returned by the SETFRR macro (as used by the Program Call/Authorization services).

PCRA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---|-----|------------|-----|------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 24 | PCRA | MAPS THE 6 WORD FRR PARAMETER AREA RETURNED BY SETFRR. USED BY PC/AUTH SERVICES AND THEIR FRR. |
| 0 | (0) | UNSIGNED | 2 | PCRAEERC | ENVIRONMENTAL ERROR REASON CODE |
| 0 | (0) | UNSIGNED | 1 | PCRASERV | ONE BYTE IDENTIFIER OF THE SERVICE ROUTINE IN CONTROL. SEE CONSTANTS THAT FOLLOW. |
| <div> <div>Comment</div> <div> . I 1 - LXRES LINKAGE INDEX RESERVE I 2 - LXFRE LINKAGE INDEX FREE I 3 - ETCRE ENTRY TABLE CREATE I 4 - ETDES ENTRY TABLE DESTROY I 5 - ETCON ENTRY TABLE CONNECT I 6 - ETDIS ENTRY TABLE DISCONNECT I 7 - AXRES AUTHORIZATION INDEX RESERVE I 8 - AXFRE AUTHORIZATION INDEX FREE I 9 - AXEXT AUTHORIZATION INDEX EXTRACT I A - AXSET AUTHORIZATION INDEX SET I B - ATSET AUTHORIZATION TABLE SET I C - PCARM PC/AUTH RESOURCE MANAGER I D - XPCR PC/AUTH FRR FINDS PCRASERV INVALID I E-10 - AVAILABLE FOR FUTURE USAGE I 11-13 - USED BY PCLINK - (UNAVAILABLE) I 14 - USED BY IEAVXMAS (UNAVAILABLE) </div> <div>End of Comment</div> </div> | | | | | |
| 1 | (1) | UNSIGNED | 1 | PCRAREAS | ABEND REASON CODE. CODES COMMON TO ALL SERVICES FOLLOW. |

PCRA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---|------|------------|-----|------------|--|
| Dec | Hex | | | | |
| Comment | | | | | |
| . I 00 - UNEXPECTED ERROR. | | | | | |
| I 01 - GETMAIN FOR DYNAMIC WORKAREA | | | | | |
| I (XMDDASP SUBPOOL) FAILED. | | | | | |
| I 02 - GETMAIN FOR SQA (S.P 245) FAILED. | | | | | |
| I 03 - GETMAIN FOR PC/AUTH LSQA (S.P. 255) FAILED. | | | | | |
| I 05 - GETMAIN FOR PC/AUTH PAGEABLE STORAGE | | | | | |
| I (XMDPSP SUBPOOL) FAILED. | | | | | |
| I 06 - FREEMAIN FOR SQA (S.P 245) FAILED. | | | | | |
| I 07 - FREEMAIN FOR PC/AUTH LSQA (S.P. 255) FAILED. | | | | | |
| I 09 - FREEMAIN FOR PC/AUTH PAGEABLE STORAGE | | | | | |
| I (XMDPSP SUBPOOL) FAILED. | | | | | |
| I 0A - FREEMAIN FOR DYNAMIC WORKAREA | | | | | |
| I (XMDDASP SUBPOOL) FAILED. | | | | | |
| I 97 - UNEXPECTED ERROR. | | | | | |
| I 98 - PC/AUTH SERVCIES ARE INOPERABLE | | | | | |
| I (SVTXMSOP HAS BEEN TURNED OFF). | | | | | |
| I 99 - PC/AUTH CONTROL BLOCK DAMAGE DETECTED. | | | | | |
| End of Comment | | | | | |
| 2 | (2) | BITSTRING | 1 | * | FIRST FLAG BYTE |
| | | 1... | | PCRARSB1 | RESERVED |
| | | .1.. | | PCRACML | PC/AUTH LOCAL LOCK HELD |
| | | ..1. | | PCRACMS | CMS LOCK HELD |
| | | ...1 | | PCRAKCM | CALLER HELD PC/AUTH LOCAL LOCK (THEREFORE, DONT RELEASE IT) |
| | | 1... | | PCRACLUP | SERVICE ROUTINE'S FRR CLEANUP EXIT INVOCATION IS REQUESTED |
| | |1.. | | PCRARCUR | RETRY RECURSION INDICATOR |
| | |1. | | PCRAFRRE | FRR WAS ENTERED AS AN FRR |
| | |1 | | PCRARMGR | FRR ENTERED AS RESOURCE MGR |
| 3 | (3) | BITSTRING | 1 | * | SECOND FLAG BYTE |
| | | 1... | | PCRA1ST | THIS PCRA IS FOR 1ST LEVEL FRR |
| | | .1.. | | PCRA2ND | THIS PCRA IS FOR 2ND LEVEL FRR (THIS IS THE MAIN PCRA) |
| | | ..1. | | PCRANTH | THIS PCRA IS FOR NTH LEVEL FRR |
| | | ...1 | | PCRAPER | PERCOLATE TO CALLER FLAG |
| | | 1... | | PCRAREC2 | IEAVXPCR RECURSION FLAG |
| | |1.. | | PCRAFRRG | FRR GETMAIN IN PROGRESS |
| | |1. | | PCRADUMP | AN SDUMP HAS BEEN REQUESTED |
| | |1 | | PCRARSB2 | RESERVED |
| 4 | (4) | ADDRESS | 4 | PCRASTTK | PCLINK STACK TOKEN |
| 8 | (8) | ADDRESS | 4 | PCRARSV1 | RESERVED WORD (3RD WORD) |
| 12 | (C) | UNSIGNED | 1 | PCRAFOOT | PRIMARY FRR FOOTPRINT |
| 13 | (D) | BITSTRING | 1 | PCRARSV2 | RESERVED |
| 14 | (E) | SIGNED | 2 | PCRARSV3 | RESERVED |
| 16 | (10) | ADDRESS | 4 | PCRARRDA | FRR DYNAMIC DATA AREA ADDRESS |
| 20 | (14) | ADDRESS | 4 | PCRASRRA | ADDRESS OF SERVICE ROUTINE RECOVERY AREA (VALID ONLY FOR THE MAIN PCRA ASSOCIATED WITH THE 2ND LEVEL FRR). |
| 20 | (14) | ADDRESS | 4 | PCRAMAIN | ADDRESS OF MAIN PCRA (VALID FOR A PCRA ASSOCIATED WITH THE 1ST OR AN NTH LEVEL FRR). |

PCRA Constants

| Len | Type | Value | Name | Description |
|---------|------|-------|------|-------------|
| Comment | | | | |

THE FOLLOWING CONSTANTS ARE SET IN PCRASERV TO ENABLE THE FRR TO DETERMINE WHICH SERVICE ROUTINE IS IN CONTROL.

| | | | | |
|----------------|---------|----|-------|--|
| End of Comment | | | | |
| 1 | DECIMAL | 1 | LXRES | LINKAGE INDEX RESERVE |
| 1 | DECIMAL | 2 | LXFRE | LINKAGE INDEX FREE |
| 1 | DECIMAL | 3 | ETCRE | ENTRY TABLE CREATE |
| 1 | DECIMAL | 4 | ETDES | ENTRY TABLE DESTROY |
| 1 | DECIMAL | 5 | ETCON | ENTRY TABLE CONNECT |
| 1 | DECIMAL | 6 | ETDIS | ENTRY TABLE DISCONNECT |
| 1 | DECIMAL | 7 | AXRES | AUTHORIZATION INDEX RESERVE |
| 1 | DECIMAL | 8 | AXFRE | AUTHORIZATION INDEX FREE |
| 1 | DECIMAL | 9 | AXEXT | AUTHORIZATION INDEX EXTRACT |
| 1 | DECIMAL | 10 | AXSET | AUTHORIZATION INDEX SET |
| 1 | DECIMAL | 11 | ATSET | AUTHORIZATION TABLE SET |
| 1 | DECIMAL | 12 | PCARM | PC/AUTH RESOURCE MANAGER |
| 1 | DECIMAL | 13 | XPCR | PC/AUTH FRR (USED WHEN FRR FINDS PCRASERV INVALID) |

| | | | | |
|---------|--|--|--|--|
| Comment | | | | |
|---------|--|--|--|--|

THE FOLLOWING CONSTANTS DEFINE THE 053 ABEND REASON CODES WHICH ARE COMMON TO ALL PC/AUTH SERVICES.

| | | | | |
|----------------|---------|----|----------|---|
| End of Comment | | | | |
| 1 | DECIMAL | 1 | PCRAGM01 | GETMAIN FOR DYNAMIC WORKAREA (XMDDASP SUBPOOL). |
| 1 | DECIMAL | 10 | PCRAFM01 | FREEMAIN FOR DYNAMIC WORKAREA (XMDDASP SUBPOOL). |
| 1 | DECIMAL | 2 | PCRAGM02 | GETMAIN FOR SQA (SP 245). |
| 1 | DECIMAL | 6 | PCRAFM02 | FREEMAIN FOR SQA (SP 245). |
| 1 | DECIMAL | 3 | PCRAGM03 | GETMAIN FOR PC/AUTH LSQA (SP 255). |
| 1 | DECIMAL | 7 | PCRAFM03 | FREEMAIN FOR PC/AUTH LSQA (SP 255). |
| 1 | DECIMAL | 5 | PCRAGM05 | GETMAIN FOR PC/AUTH PAGEABLE STORAGE (XMDPSP SUBPOOL). |
| 1 | DECIMAL | 9 | PCRAFM05 | FREEMAIN FOR PC/AUTH PAGEABLE STORAGE (XMDPSP SUBPOOL). |
| 1 | HEX | 97 | PCRAUNEX | UNEXPECTED ERROR. |
| 1 | HEX | 98 | PCRAINOP | PC/AUTH SERVICES ARE INOPERABLE (SVTXMSOP IS OFF). |
| 1 | HEX | 99 | PCRADAMG | PC/AUTH CONTROL BLOCK DAMAGE WAS DETECTED. |

PCRA Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| PCRA | 0 | | PCRARCUR | 2 | 04 |
| PCRACLUP | 2 | 08 | PCRAREAS | 1 | |
| PCRACML | 2 | 40 | PCRAREC2 | 3 | 08 |
| PCRACMS | 2 | 20 | PCRARMGR | 2 | 01 |
| PCRADUMP | 3 | 02 | PCRARRDA | 10 | |
| PCRAEERC | 0 | | PCRARSB1 | 2 | 80 |
| PCRAFOOT | C | | PCRARSB2 | 3 | 01 |
| PCRAFRRE | 2 | 02 | PCRARSV1 | 8 | |
| PCRAFRRG | 3 | 04 | PCRARSV2 | D | |
| PCRAKCM | 2 | 10 | PCRARSV3 | E | |
| PCRAMAIN | 14 | | PCRASERV | 0 | |
| PCRANTH | 3 | 20 | PCRASRRA | 14 | |
| PCRAPERC | 3 | 10 | PCRASTTK | 4 | |

PCRA Cross Reference

| Name | Hex Offset | Hex Value |
|---------|---------------|--------------|
| PCRA1ST | 3 | 80 |
| PCRA2ND | 3 | 40 |

PCT Heading Information

Common Name: ASM Performance Characteristics Table
Macro ID: ILRPCT
DSECT Name: PCT
Owning Component: Auxiliary Storage Manager (SC1CW)
Eye-Catcher ID: PCT
 Offset: 0
 Length: 4
Storage Attributes: Virtual Storage: YES
 Subpool: 245
 Key: 0
 Data Space: NO
 Residency: Above 16 Megabytes virtual
Size: 40 bytes plus a variable number of bytes dependent on the data set size
Created by: ILRASRIM, ILRPGEXP
Pointed to by: PARTPCTQ field of the PART data area
 PCTNEXT field of the PCT data area
 PAREPCTP field of the PARTE data area
Serialization: None
Function: The PCT provides a single location for device-dependent information used by ASM. One PCT exists for each type of device supported by ASM.

PCT Map

| Offsets | | | | | |
|---------|------|------------|-----|------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | * | PCT | Performance Characteristics Table |
| 0 | (0) | CHARACTER | 4 | PCTID | 'PCT ' identifier |
| 4 | (4) | CHARACTER | 6 | PCTDTYPE | Device type (EBCDIC) |
| 10 | (A) | CHARACTER | 2 | PCTRSV3 | Reserved |
| 12 | (C) | CHARACTER | 2 | PCTDTYPX | Device type |
| 14 | (E) | SIGNED | 2 | PCTCYLSZ | Slots per cylinder |
| 16 | (10) | ADDRESS | 4 | PCTNEXT | Address of next PCT in the PART PCT queue. |
| 20 | (14) | CHARACTER | 4 | PCTDMASK | Mask to preset non-existent slots |
| 24 | (18) | CHARACTER | 1 | PCTDUSE | Device usage code. |
| 25 | (19) | UNSIGNED | 1 | PCTPCCWM | PCCW multiplier |
| 26 | (1A) | UNSIGNED | 1 | PCTBRST | Burst size |
| 27 | (1B) | CHARACTER | 3 | PCTRSV1 | Reserved |
| 30 | (1E) | SIGNED | 2 | PCTSSECN | Number of unique Set Sector values |
| 32 | (20) | SIGNED | 4 | PCTRQTIM | Minimum time to read or write one 4096-byte slot |
| 36 | (24) | UNSIGNED | 2 | PCTMAXTK | Maximum relative track position |
| 38 | (26) | UNSIGNED | 2 | PCTMSSB | Minimum byte variance to insert Set Sector |
| 40 | (28) | CHARACTER | * | PCTTABLE | Sector value table |

| Offsets | | | | | |
|---------|------|------------|-----|-------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 40 | (28) | STRUCTURE | 8 | PCTSECT (*) | Sector values |
| 40 | (28) | CHARACTER | 1 | PCTSLTNM | Relative slot number on cylinder |
| | | 1... .. | | PCTFOVFL | 1 = Overflow track |
| | | .111 1111 | | PCTSLT | Slot number |
| 41 | (29) | CHARACTER | 1 | PCTSECNM | Sector value corresponding to slot number |
| 42 | (2A) | CHARACTER | 2 | PCTTRBA | Relative byte on track |
| 44 | (2C) | CHARACTER | 3 | PCTHHR | Head and record for this slot on the cylinder |

PCT Cross Reference

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|-------------|
| Dec | Hex | | | | |
| 47 | (2F) | CHARACTER | 1 | PCTRSV2 | Reserved |

PCT Cross Reference

| Name | Hex Offset | Hex Value |
|----------|------------|-----------|
| PCT | 0 | |
| PCTBRST | 1A | |
| PCTCYLSZ | E | |
| PCTDMASK | 14 | |
| PCTDTYPE | 4 | |
| PCTDTYPX | C | |
| PCTDUSE | 18 | |
| PCTFOVFL | 28 | 80 |
| PCTHHR | 2C | |
| PCTID | 0 | |
| PCTMAXTK | 24 | |
| PCTMSSB | 26 | |
| PCTNEXT | 10 | |
| PCTPCCWM | 19 | |
| PCTRQTIM | 20 | |
| PCTRSV1 | 1B | |
| PCTRSV2 | 2F | |
| PCTRSV3 | A | |
| PCTSECNM | 29 | |
| PCTSECT | 28 | |
| PCTSLOT | 28 | 7F |
| PCTSLTNM | 28 | |
| PCTSSECN | 1E | |
| PCTTABLE | 28 | |
| PCTTRBA | 2A | |

PCTRC Heading Information

Common Name: PC/AUTH SERVICES SYSTEM TRACE ENTRY TEMPLATES
Macro ID: IHAPCTRC
DSECT Name: N/A
Owning Component: SCXMS (PC/AUTH)
Eye-Catcher ID: N/A
 Offset: N/A
 Length: N/A
Storage Attributes: Subpool: 0
 Key: 0
 Residency: PC/AUTH PRIVATE AREA
Size: N/A
Created by: IEAVXECO (ETCON)
 IEAVXECR (ETCRE)
 IEAVXEDE (ETDES)
 IEAVXEDI (ETDIS)
 IEAVXLFR (LXFRE)
 IEAVXLRE (LXRES)
 IEAVXRFE (AXTEX, AXFRE, AND AXRES)
 IEAVXSET (ATSET AND AXSET)
Pointed to by: EACH TEMPLATE IS AUTOMATICALLY BASED UPON THE LEVEL-1
 "GENERAL" DECLARED STRUCTURE
Serialization: PROVIDED BY TEMPLATE BEING IN EACH SERVICE ROUTINE'S
 DYNAMIC AREA
Function:

PCTRC Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 20 | PCETCON | ETCON SYSTEM TRACE ENTRY TEMPLATE (SRVID=X0100) |
| 0 | (0) | ADDRESS | 4 | PCETCRET | ETCON CALLERS RETURN ADDRESS (ZERO TO INDICATE PC ENTERED ROUTINE) |
| 4 | (4) | SIGNED | 4 | PCETCNET | NUMBER OF ENTRY TABLES TO BE CONNECTED BY ETCON |
| 8 | (8) | ADDRESS | 4 | PCETCETA | ADDRESS OF FIRST ETIB TO BE CONNECTED BY ETCON |
| 12 | (C) | SIGNED | 4 | PCETCTKN | FIRST ASSIGNED LX ASSOCIATED WITH THE FIRST ENTRY TABLE |
| 16 | (10) | CHARACTER | 4 | PCETCRSV | RESERVED |
| 20 | (14) | CHARACTER | 0 | PCETCONE | END OF ETCON SYSTEM TRACE ENTRY TEMPLATE |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 20 | PCETCRE | ETCRE SYSTEM TRACE ENTRY TEMPLATE (SRVID=X0101) |
| 0 | (0) | ADDRESS | 4 | PCETRRET | ETCRE CALLERS RETURN ADDRESS (ZERO TO INDICATE PC ENTERED ROUTINE) |
| 4 | (4) | SIGNED | 4 | PCETRETD | ENTRY TABLE DESCRIPTION OF THE ENTRY TABLE TO BE CREATED BY ETCRE |
| 8 | (8) | ADDRESS | 4 | PCETRTRKN | TOKEN ASSIGNED WITH THE NEW ENTRY TABLE |
| 12 | (C) | SIGNED | 2 | PCETRNET | NUMBER OF ENTRY TABLE DESCRIPTIONS CONTAINED IN ENTRY TABLE DESCRIPTION LIST |
| 14 | (E) | CHARACTER | 6 | PCETRRSV | RESERVED |
| 20 | (14) | CHARACTER | 0 | PCETCREE | END OF ETCRE SYSTEM TRACE ENTRY TEMPLATE |

PCTRC Map

| Offsets | | | | | |
|---------|------|------------|-----|------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 21 | PCATSET | ATSET SYSTEM TRACE ENTRY TEMPLATE (SRVID=X0102) |
| 0 | (0) | ADDRESS | 4 | PCATSRET | ATSET CALLERS RETURN ADDRESS (ZERO TO INDICATE PC ENTERED ROUTINE) |
| 4 | (4) | SIGNED | 4 | PCATSRG0 | CONTENTS OF INPUT REG 0 |
| 4 | (4) | BITSTRING | 2 | PCATSFLG | ATSET OPTION FLAG BYTES |
| 4 | (4) | BITSTRING | 1 | * | RESERVED |
| 5 | (5) | 1... | | PCATSFPT | PT OPERAND INDICATION FLAG (1-PT=YES AND 0-PT=NO) |
| | | .1... | | PCATSFSS | SSAR OPERAND INDICATION FLAG (1-SSAR=YES AND 0-SSAR=NO) |
| | | ..11 1111 | | * | RESERVED |
| 6 | (6) | SIGNED | 2 | PCATSAX | AX VALUE |
| 8 | (8) | CHARACTER | 13 | PCATSRSV | RESERVED |
| 21 | (15) | CHARACTER | 0 | PCATSET | END OF ATSET SYSTEM TRACE ENTRY TEMPLATE |

| Offsets | | | | | |
|---------|------|------------|-----|------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 20 | PCAXSET | AXSET SYSTEM TRACE ENTRY TEMPLATE (SRVID=X0103) |
| 0 | (0) | ADDRESS | 4 | PCAXSRET | AXSET CALLERS RETURN ADDRESS (ZERO TO INDICATE PC ENTERED ROUTINE) |
| 4 | (4) | SIGNED | 2 | PCAXSOAX | ORIGINAL AX VALUE |
| 6 | (6) | SIGNED | 2 | PCAXSNAX | NEW AX VALUE |
| 8 | (8) | CHARACTER | 12 | PCAXSRSV | RESERVED |
| 20 | (14) | CHARACTER | 0 | PCAXSET | END OF AXSET SYSTEM TRACE ENTRY TEMPLATE |

| Offsets | | | | | |
|---------|------|------------|-----|------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 20 | PCAXEXT | AXEXT SYSTEM TRACE ENTRY TEMPLATE (SRVID=X0104) |
| 0 | (0) | ADDRESS | 4 | PCAXERET | AXEXT CALLERS RETURN ADDRESS (ZERO TO INDICATE PC ENTERED ROUTINE) |
| 4 | (4) | SIGNED | 4 | PCAXEASD | ASID OF ADDRESS SPACE WHOSE AX IS TO BE EXTRACTED BY AXEXT |
| 8 | (8) | SIGNED | 4 | PCAXEAX | AX VALUE ASSOCIATED WITH INPUT ASID |
| 12 | (C) | CHARACTER | 8 | PCAXERSV | RESERVED |
| 20 | (14) | CHARACTER | 0 | PCAXEXTE | END OF AXEXT SYSTEM TRACE ENTRY TEMPLATE |

| Offsets | | | | | |
|---------|------|------------|-----|------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 20 | PCAXFRE | AXFRE SYSTEM TRACE ENTRY TEMPLATE (SRVID=X0105) |
| 0 | (0) | ADDRESS | 4 | PCAXFRET | AXFRE CALLERS RETURN ADDRESS (ZERO TO INDICATE PC ENTERED ROUTINE) |
| 4 | (4) | SIGNED | 2 | PCAXFNAX | NUMBER OF AX TO BE FREED BY AXFRE |
| 6 | (6) | SIGNED | 2 | PCAXFAXF | FIRST AX FREED BY AXFRE |
| 8 | (8) | CHARACTER | 12 | PCAXFRSV | RESERVED |
| 20 | (14) | CHARACTER | 0 | PCAXFREE | END OF AXFRE SYSTEM TRACE ENTRY TEMPLATE |

| Offsets | | | | | |
|---------|------|------------|-----|------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 20 | PCAXRES | AXRES SYSTEM TRACE ENTRY TEMPLATE (SRVID=X0106) |
| 0 | (0) | ADDRESS | 4 | PCAXRRRET | AXRES CALLERS RETURN ADDRESS (ZERO TO INDICATE PC ENTERED ROUTINE) |
| 4 | (4) | SIGNED | 2 | PCAXRNAR | NUMBER OF AX TO BE RESERVED BY AXRES |
| 6 | (6) | SIGNED | 2 | PCAXRAXF | FIRST AX RESERVED BY AXRES |
| 8 | (8) | CHARACTER | 12 | PCAXRRSV | RESERVED |
| 20 | (14) | CHARACTER | 0 | PCAXRESE | END OF AXRES SYSTEM TRACE ENTRY TEMPLATE |

| Offsets | | | | | |
|---------|------|----------------------|-----|----------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 20 | PCETDES | ETDES SYSTEM TRACE ENTRY TEMPLATE (SRVID=X0107) |
| 0 | (0) | ADDRESS | 4 | PCETDRET | ETDES CALLERS RETURN ADDRESS (ZERO TO INDICATE PC ENTERED ROUTINE) |
| 4 | (4) | SIGNED | 4 | PCETDTKN | TOKEN ASSOCIATED WITH THE ENTRY TABLE TO BE DESTROYED BY ETDES |
| 8 | (8) | BITSTRING 1... .. | 1 | PCETDFLG PCETDFPG | ETDES OPTION FLAG BYTE PURGE OPERAND INDICATION FLAG (1-PURGE=YES AND 0-PURGE=NO) |
| 9 | (9) | CHARACTER | 11 | PCETDRSV | RESERVED |
| 20 | (14) | CHARACTER | 0 | PCETDESE | END OF ETDES SYSTEM TRACE ENTRY TEMPLATE |

| Offsets | | | | | |
|---------|------|------------|-----|------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 20 | PCETDIS | ETDIS SYSTEM TRACE ENTRY TEMPLATE (SRVID=X0108) |
| 0 | (0) | ADDRESS | 4 | PCETIRET | ETDIS CALLERS RETURN ADDRESS (ZERO TO INDICATE PC ENTERED ROUTINE) |
| 4 | (4) | SIGNED | 4 | PCETINET | NUMBER OF ENTRY TABLES TO BE DISCONNECTED BY ETDIS |
| 8 | (8) | SIGNED | 4 | PCETITKN | TOKEN ASSOCIATED WITH THE FIRST ENTRY TABLE TO BE DISCONNECTED BY ETDIS |
| 12 | (C) | CHARACTER | 8 | PCETIRSV | RESERVED |
| 20 | (14) | CHARACTER | 0 | PCETDISE | END OF ETDIS SYSTEM TRACE ENTRY TEMPLATE |

| Offsets | | | | | |
|---------|------|----------------------|-----|----------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 20 | PCLXFRE | LXFRE SYSTEM TRACE ENTRY TEMPLATE (SRVID=X0109) |
| 0 | (0) | ADDRESS | 4 | PCLXFRET | LXFRE CALLERS RETURN ADDRESS (ZERO TO INDICATE PC ENTERED ROUTINE) |
| 4 | (4) | SIGNED | 4 | PCLXFN LX | NUMBER OF LX TO BE FREED BY LXFRE |
| 8 | (8) | SIGNED | 4 | PCLXFFLX | FIRST LX TO BE FREED BY LXFRE |
| 12 | (C) | BITSTRING 1... .. | 1 | PCLXFFLG PCLXFFFR | LXFRE OPTION FLAG BYTE FORCE OPERAND INDICATION FLAG (1-FORCE=YES AND 0-FORCE=NO) |
| 13 | (D) | CHARACTER | 7 | PCLXFRSV | RESERVED |
| 20 | (14) | CHARACTER | 0 | PCLXFREE | END OF LXFRE SYSTEM TRACE ENTRY TEMPLATE |

| Offsets | | | | | |
|---------|------|----------------------|-----|----------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 20 | PCLXRES | LXRES SYSTEM TRACE ENTRY TEMPLATE (SRVID=X010A) |
| 0 | (0) | ADDRESS | 4 | PCLXRRET | LXRES CALLERS RETURN ADDRESS (ZERO TO INDICATE PC ENTERED ROUTINE) |
| 4 | (4) | SIGNED | 4 | PCLXRN LX | NUMBER OF LX TO BE RESERVED BY LXRES |
| 8 | (8) | SIGNED | 4 | PCLXRLXA | FIRST LX ASSIGNED BY LXRES |
| 12 | (C) | BITSTRING 1... .. | 1 | PCLXRFLG PCLXRFSY | LXRES OPTION FLAG BYTE SYSTEM OPERAND INDICATION FLAG (1-SYSTEM=YES AND 0-SYSTEM=NO) |
| 13 | (D) | CHARACTER | 7 | PCLXRRSV | RESERVED |
| 20 | (14) | CHARACTER | 0 | PCLXRESE | END OF LXRES SYSTEM TRACE ENTRY TEMPLATE |

PCTRC Cross Reference

PCTRC Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|-----------|---------------|--------------|-----------|---------------|--------------|
| PCATSAX | 6 | | PCLXFNLX | 4 | |
| PCATSET | 0 | | PCLXFRE | 0 | |
| PCATSETE | 15 | | PCLXFREE | 14 | |
| PCATSFLG | 4 | | PCLXFRET | 0 | |
| PCATSFPT | 5 | 80 | PCLXFRSV | D | |
| PCATSFSS | 5 | 40 | PCLXRES | 0 | |
| PCATSRET | 0 | | PCLXRESE | 14 | |
| PCATSRG0 | 4 | | PCLXRFLG | C | |
| PCATSRSV | 8 | | PCLXRFSY | C | 80 |
| PCAXEASD | 4 | | PCLXRLXA | 8 | |
| PCAXEAX | 8 | | PCLXRN LX | 4 | |
| PCAXERET | 0 | | PCLXRRET | 0 | |
| PCAXERSV | C | | PCLXRRSV | D | |
| PCAXEXT | 0 | | | | |
| PCAXEXTE | 14 | | | | |
| PCAXFAXF | 6 | | | | |
| PCAXFNAX | 4 | | | | |
| PCAXFRE | 0 | | | | |
| PCAXFREE | 14 | | | | |
| PCAXFRET | 0 | | | | |
| PCAXFRSV | 8 | | | | |
| PCAXRAXF | 6 | | | | |
| PCAXRES | 0 | | | | |
| PCAXRESE | 14 | | | | |
| PCAXRNAR | 4 | | | | |
| PCAXRRET | 0 | | | | |
| PCAXRRSV | 8 | | | | |
| PCAXSET | 0 | | | | |
| PCAXSETE | 14 | | | | |
| PCAXSNAX | 6 | | | | |
| PCAXSOAX | 4 | | | | |
| PCAXSRET | 0 | | | | |
| PCAXSRSV | 8 | | | | |
| PCETCETA | 8 | | | | |
| PCETCNET | 4 | | | | |
| PCETCON | 0 | | | | |
| PCETCONE | 14 | | | | |
| PCETCRE | 0 | | | | |
| PCETCREE | 14 | | | | |
| PCETCRET | 0 | | | | |
| PCETCRSV | 10 | | | | |
| PCETCTKN | C | | | | |
| PCETDES | 0 | | | | |
| PCETDESE | 14 | | | | |
| PCETDFLG | 8 | | | | |
| PCETDFPG | 8 | 80 | | | |
| PCETDIS | 0 | | | | |
| PCETDISE | 14 | | | | |
| PCETDRET | 0 | | | | |
| PCETDRSV | 9 | | | | |
| PCETDTKN | 4 | | | | |
| PCETINET | 4 | | | | |
| PCETIRET | 0 | | | | |
| PCETIRSV | C | | | | |
| PCETITKN | 8 | | | | |
| PCETRETD | 4 | | | | |
| PCETRNET | C | | | | |
| PCETRRET | 0 | | | | |
| PCETRRSV | E | | | | |
| PCETRRTKN | 8 | | | | |
| PCLXFFFR | C | 80 | | | |
| PCLXFFLG | C | | | | |
| PCLXFFLX | 8 | | | | |

PEL Programming Interface information

Programming Interface information

PEL

ONLY the following fields are part of the programming interface information:

- PELMILEN
- PELXQNME
- PELXRNME

End of Programming Interface information

PEL Heading Information

Common Name: Parameter Element List
Macro ID: ISGPEL
DSECT Name: PEL
Owning Component: Global Resource Serialization (SCSDS)
Eye-Catcher ID: None
Storage Attributes: Subpool: Any valid subpool in the private or common area
 Key: User's key
Size: 52 + length of RNAME
Created by: ENQ/DEQ/RESERVE macro expansion.
Pointed to by: The pointer is maintained by the user of the macro.
Serialization: None
Function: Contains the necessary information to process an ENQ, DEQ, or RESERVE macro request.

PEL Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | PEL | PARAMETER ELEMENT LIST |
| 0 | (0) | CHARACTER | 8 | PELPREFX | PARAMETER ELEMENT PREFIX |
| 0 | (0) | ADDRESS | 4 | PELTCB | IF BOTH TCB AND ECB ARE CODED, CONTAINS TCB ADDRESS |
| 4 | (4) | ADDRESS | 4 | PELDUAL | PEL PREFIX WORD (TCB ADDR. OR ECB ADDR.) |
| 8 | (8) | CHARACTER | 12 | PELBASIC | PARAMETER ELEMENT BASIC SECTION |
| 8 | (8) | BITSTRING | 1 | PELLAST | FLAG BYTE 1 |
| | | 1... | | PELEOL | "X'80" LAST ELEMENT OF LIST |
| | | .1.. | | PELIGNOR | "X'40" IGNORE REMAINING BITS OF THIS BYTE |
| | | ..1. | | PELOCANY | "X'20" If 1, LOC=ANY was specified on a RESERVE or DEQ request. - LOC=ANY must be specified when the UCB address provided by the caller is an above-the-line address and is to be treated as such by ISGGQWBI, ISGGSETU, and ISGGNQDQ. |
| | | ...1 | | PELSHR | "X'10" SHARED RESOURCE REQUEST |
| | | 1... | | PELSAVE | "X'08" NEW-FORMAT PEL PREFIX PRECEDES FIRST PEL OF LIST. MUST BE ZERO FOR A DEQ PARAMETER-LIST. |
| | |1.. | | PELNORNL | "X'04" IF 1, RNL=NO WAS SPECIFIED |
| | |1. | | PELGEN2 | "X'02" IF 1, GENERIC=YES WAS SPECIFIED |
| | |1 | | PELTCBF | "X'01" TCB= WAS SPECIFIED. PELTCBF IS IGNORED IN THE USER PEL IF PELSAVE IS ON. THE TCB= OPERAND IS CONSIDERED TO BE PRESENT IF THE TCB FIELD OF THE NEW-FORMAT PEL-PREFIX IS NON-ZERO. |
| 9 | (9) | BITSTRING | 1 | PELMILEN | RNAME LENGTH |
| 10 | (A) | BITSTRING | 1 | PELFLAG | FLAG BYTE 2 |
| | | 1... | | PELSHARE | "X'80" 0 = EXCLUSIVE, 1 = SHARE |
| | | .1.. | | PELSCEP1 | "X'40" SEE COMMENTS BELOW |
| | | ..1. | | PELSYSMC | "X'20" OBSOLETE (SET/RESET SYSTEM MUST COMPLETE) |
| | | ...1 | | PELSTPMC | "X'10" SET/RESET STEP MUST COMPLETE SPECIFIED |
| | | 1... | | PELSCEP2 | "X'08" SEE COMMENTS BELOW |
| | |1.. | | PELRET1 | "X'04" SEE COMMENTS BELOW |
| | |1. | | PELRET2 | "X'02" SEE COMMENTS BELOW |
| | |1 | | PELRET3 | "X'01" SEE COMMENTS BELOW |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------------------------------|------|------------|-----|------------|--|
| Dec | Hex | | | | |
| Comment | | | | | |
| PELRET1 AND PELRET2 AND PELRET3 | | | | | |
| 000- RET=NONE (NO RET) | | | | | |
| 001- RET=HAVE | | | | | |
| 010- RET=CHNG | | | | | |
| 011- RET=USE | | | | | |
| 100- ECB= | | | | | |
| 101- RESERVED | | | | | |
| 110- RESERVED | | | | | |
| 111- RET=TEST | | | | | |
| PELSCPE1 AND PELSCPE2 | | | | | |
| 00- STEP | | | | | |
| 01- SYSTEMS AND UCB | | | | | |
| 10- SYSTEM | | | | | |
| 11- SYSTEMS | | | | | |
| End of Comment | | | | | |
| 11 | (B) | BITSTRING | 1 | PELRET | RETURN CODE AREA IN USER PEL |
| 12 | (C) | ADDRESS | 4 | PELMAJA | ADDRESS OF QNAME - NOT USED WHEN QNAME HAS BEEN MOVED TO THE PELX |
| 12 | (C) | X'8' | 0 | PELMAJSZ | "8" LENGTH OF QNAME |
| 16 | (10) | ADDRESS | 4 | PELMINA | ADDRESS OF RNAME - NOT USED WHEN RNAME HAS BEEN MOVED TO THE PELX |
| 16 | (10) | X'C' | 0 | PELELEM | "*-PELBASIC" LENGTH OF A PEL ENTRY |
| 20 | (14) | ADDRESS | 4 | PELUCBAA | ADDRESS OF POINTER TO UCB. THIS FIELD ONLY EXISTS FOR RESERVE REQUESTS. WHEN MAPPED TO A QWBPEL, THIS FIELD IS NOT USED. THE UCB ADDRESS, HOWEVER, IS FOUND IN THE PELX. |
| 24 | (18) | CHARACTER | 28 | PELX | PEL EXTENSION. NOTE THAT THIS SECTION IS VARIABLE IN SIZE. THE SIZE IS THE SMALLEST SIZE OF THE PELX. THE LENGTH OF THE RNAME MUST BE ADDED TO THIS LENGTH TO COMPUTE THE LENGTH OF THE PELX ENTRY |
| 24 | (18) | BITSTRING | 1 | PELXRET | RETURN CODE AREA IN QWB |
| 25 | (19) | BITSTRING | 1 | PELXFLG1 | PEL EXTENSION FLAGS |
| | | 1... | | PELXSIEX | "X'80" SYSTEM SCOPE INCLUDED IN GLOBAL SHARING |
| | | .1.. | | PELXRCEX | "X'40" RESERVE CONVERTED TO GLOBAL ENQ |
| | | ..1. | | PELXSEEX | "X'20" SYSTEMS SCOPE EXCLUDED FROM GLOBAL SHARING |
| | | ...1 | | PELXGLBL | "X'10" WHEN 1, GLOBAL RESOURCE REQUEST WHEN 0, LOCAL RESOURCE REQUEST |
| | | 1... | | PELXLAST | "X'08" LAST ENTRY IN QWBPEL - NOTE THAT IF PELEOL=0, A QWB EXTENSION EXISTS |
| | |1.. | | PELXRESV | "X'04" RESERVE REQUEST |
| | |1. | | PELXERR | "X'02" THIS ENTRY IN ERROR |
| | |1 | | PELXREQF | "X'01" 1 => ASCBCREQ HAS BEEN INCREASED FOR THIS REQUEST, BUT NO QEL HAS BEEN INSERTED. IF A FAILURE OCCURS, ISGGFRR0 MUST REDUCE THE COUNT BY 1. 0 => NO ADJUSTMENT OF ASCBCREQ IS REQUIRED FOR THIS REQUEST. |
| 26 | (1A) | BITSTRING | 1 | PELXFLAG | COPY OF PELFLAG (ONLY FOR GLOBAL REQUESTS) |
| 27 | (1B) | CHARACTER | 1 | PELXFLG2 | FLAG-BYTE |
| | | 1... | | PELXERSV | "X'80" EARLY-RESERVE FLAG. RESOURCE NAME MATCHES THE NAME USED IN AN EARLY GLOBAL RESERVE THAT WAS CONVERTED TO A LOCAL RESERVE. |
| | | .1.. | | PELXTOKN | "X'40" TOKEN INDICATOR- WHEN 1, INDICATES THIS PELX WAS GENERATED FORM A QNP WHICH HAD QNPXTOKN=1. CORRESPONDS TO FLAG QNPXTOKN IN THE QNP. ALWAYS 0 IN THE ORIGINATING SYSTEM. |
| | | ..1. | | PELXCBEX | "X'20" Request changed by ISGNQXIT |
| | | ...1 | | PELXRS25 | "X'10" RESERVED |
| | | 1... | | PELXRS24 | "X'08" RESERVED |
| | |1.. | | PELXRS23 | "X'04" RESERVED |

PEL Cross Reference

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|--------------|---|
| Dec | Hex | | | | |
| | |1. | | PELXRS22 | "X'02'" RESERVED |
| | |1 | | PELXRS21 | "X'01'" RESERVED |
| 28 | (1C) | ADDRESS | 4 | PELXPELE | IDENTIFIES THE REQUESTOR-S PEL ENTRY IN WHICH THE RETURN CODE SHOULD BE STORED. |
| 32 | (20) | SIGNED | 2 | PELXSIZE | SIZE OF THIS PEL ENTRY |
| 34 | (22) | SIGNED | 2 | PELXRNMW | RNAME SIZE ROUNDED TO A WORD BOUNDARY |
| 36 | (24) | ADDRESS | 4 | PELXUCBA | ADDRESS OF UCB |
| 40 | (28) | ADDRESS | 4 | PELXQCB | ADDRESS OF SMPL ENTRY CONTAINING THE QCB FOR THIS RESOURCE. THIS FIELD IS ONLY VALID ON ENQ/RESERVE REQUESTS. |
| 44 | (2C) | CHARACTER | 8 | PELXQNME | QNAME OF THIS RESOURCE |
| 44 | (2C) | X'34' | 0 | PELEND | *** END OF PEL (FIXED LEN SECTION) |
| 52 | (34) | CHARACTER | 1 | PELXRNME (0) | RNAME OF THIS RESOURCE (VARIABLE LEN) - NOTE RNAME IS PADDED TO WORD BOUNDARY WITH ZEROS |

PEL Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| PEL | 0 | | PELXRESV | 19 | 4 |
| PELBASIC | 8 | | PELXRET | 18 | |
| PELDUAL | 4 | | PELXRNME | 34 | |
| PELELEM | 10 | C | PELXRNMW | 22 | |
| PELEND | 2C | 34 | PELXRS21 | 1B | 1 |
| PELEOL | 8 | 80 | PELXRS22 | 1B | 2 |
| PELFLAG | A | | PELXRS23 | 1B | 4 |
| PELGEN2 | 8 | 2 | PELXRS24 | 1B | 8 |
| PELIGNOR | 8 | 40 | PELXRS25 | 1B | 10 |
| PELLAST | 8 | | PELXSEEX | 19 | 20 |
| PELMAJA | C | | PELXSIEX | 19 | 80 |
| PELMAJSZ | C | 8 | PELXSIZE | 20 | |
| PELMILEN | 9 | | PELXTOKN | 1B | 40 |
| PELMINA | 10 | | PELXUCBA | 24 | |
| PELNORN | 8 | 4 | | | |
| PELOCANY | 8 | 20 | | | |
| PELPREFX | 0 | | | | |
| PELRET | B | | | | |
| PELRET1 | A | 4 | | | |
| PELRET2 | A | 2 | | | |
| PELRET3 | A | 1 | | | |
| PELSAVE | 8 | 8 | | | |
| PELSCPE1 | A | 40 | | | |
| PELSCPE2 | A | 8 | | | |
| PELSHARE | A | 80 | | | |
| PELSHR | 8 | 10 | | | |
| PELSTPMC | A | 10 | | | |
| PELSYMC | A | 20 | | | |
| PELTCB | 0 | | | | |
| PELTCBF | 8 | 1 | | | |
| PELUCBAA | 14 | | | | |
| PELX | 18 | | | | |
| PELXCBEX | 1B | 20 | | | |
| PELXERR | 19 | 2 | | | |
| PELXERSV | 1B | 80 | | | |
| PELXFLAG | 1A | | | | |
| PELXFLG1 | 19 | | | | |
| PELXFLG2 | 1B | | | | |
| PELXGLBL | 19 | 10 | | | |
| PELXLAST | 19 | 8 | | | |
| PELXPELE | 1C | | | | |
| PELXQCB | 28 | | | | |
| PELXQNME | 2C | | | | |
| PELXRCEX | 19 | 40 | | | |
| PELXREQF | 19 | 1 | | | |

PFK Heading Information

Common Name: PROGRAM FUNCTION KEY TABLE MAPPING
Macro ID: IEEVC103
DSECT Name: PFKSTAB
Owning Component: DIDOCS (SC1C4)
Eye-Catcher ID: PFKT
 Offset: 0
 Length: 4
Storage Attributes: Subpool: 230
 Key: 0
 Residency: ABOVE|BELOW 16 MEGABYTES
Size: PFK TABLE HEADER: 16 BYTES
 PFK TABLE: 3108 BYTES
Created by: IEECB817
Pointed to by: BY = UCM PAGEABLE EXTENSION (UCMPPFKT)
Serialization: COMM TASK LOCAL LOCK
Function: MAPS THE PFK TABLE TO BE USED BY OPERATOR CONSOLES

PFK Map

| Offsets | | | | | |
|---------|------|------------|-----|--------------|---------------------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | * | PFKSTAB | PFK TABLE |
| 0 | (0) | CHARACTER | 16 | PFKHEADR | PFK TABLE HEADER |
| 0 | (0) | CHARACTER | 4 | PFKACRO | ACRONYM "PFKT" |
| 4 | (4) | UNSIGNED | 1 | PFKVERSN | VERSION LEVEL |
| 5 | (5) | UNSIGNED | 1 | * | RESERVED |
| 6 | (6) | SIGNED | 2 | PFKTBNUM | NUMBER OF PFK TABLE DEFINITIONS |
| 8 | (8) | SIGNED | 4 | PFKLEN | LENGTH OF PFK TABLE |
| 12 | (C) | CHARACTER | 2 | PFKMEMB | SUFFIX OF PARMLIB MEMBER |
| 14 | (E) | CHARACTER | 2 | * | RESERVED |
| 16 | (10) | CHARACTER | 12 | PFKENTRY (*) | PFK TABLE ENTRIES |
| 16 | (10) | CHARACTER | 8 | PFKTABNM | PFK TABLE NAME |
| 24 | (18) | ADDRESS | 4 | PFKTABPT | PTR TO PFK TABLE DEFINITION |

| Offsets | | | | | |
|---------|-------|------------|------|-------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 3096 | PFKTABLE | |
| 0 | (0) | CHARACTER | 8 | PFKTNAME | NAME OF PFK TABLE |
| 8 | (8) | UNSIGNED | 4 | PFKTLEN | LENGTH OF PFK DEFINITIONS |
| 12 | (C) | CHARACTER | 8 | PFKTWORK | WORK AREA FOR THE K N,PFK CMD PROCESSOR |
| 20 | (14) | CHARACTER | 128 | PFKTAB (24) | |
| 20 | (14) | UNSIGNED | 1 | PFKTKEY | PFK NUMBER |
| 21 | (15) | BITSTRING | 1 | PFKTFLGS | PFK FLAGS |
| | | 1... | | PFKTDEF | PFK IS DEFINED |
| | | .1.. | | PFKTPROC | PFK IS BEING PROCESSED |
| | | ..1. | | PFKTCON | PFK IS CONVERSATIONAL |
| | | ...1 | | * | RESERVED |
| | | 1... | | PFKTMST | PFK IS A MASTER KEY. PFKTCMD CONTAINS A LIST OF KEYS |
| 22 | (16) | CHARACTER | 126 | PFKTCMD | PFK COMMAND OR KEYS |
| 3092 | (C14) | CHARACTER | 1 | PFKTEND | END OF PFK DEFINITION |
| 3093 | (C15) | CHARACTER | 3 | * | ADJUST TO DOUBLE WORD BNDY |

PFK Constants • PFK Cross Reference

PFK Constants

| Len | Type | Value | Name | Description |
|---------------------|-----------|-------|----------|---|
| Comment | | | | |
| PFK TABLE CONSTANTS | | | | |
| End of Comment | | | | |
| 4 | CHARACTER | PFKT | PFKT | PFK TABLE ACRONYM |
| 4 | DECIMAL | 24 | PFKTKNUM | NUMBER OF PFKS IN TABLE |
| 4 | DECIMAL | 126 | PFKTMAXL | MAXIMUM LENGTH OF COMMAND |
| 1 | HEX | 64 | PFKTBEND | END OF PFK DEFINITIONS INDICATOR |
| 1 | CHARACTER | / | PFKTLEND | END OF KEY LIST INDICATOR |
| 1 | HEX | 5E | PFKTLSEP | KEY LIST SEPARATOR (SEMI-COLON) |
| 4 | DECIMAL | 230 | PFKTSUBP | SUBPOOL FOR PFK TABLE |
| 1 | DECIMAL | 1 | PFKSP220 | VERSION LEVEL IS MVS/XA JBB2220 |
| 1 | DECIMAL | 1 | PFKTVRID | VERSION LEVEL - UPDATED FOR SIZE OR INCOMPATIBLE CHANGE |

PFK Cross Reference

| Name | Hex Offset | Hex Value |
|----------|------------|-----------|
| PFKACRO | 0 | |
| PFKENTRY | 10 | |
| PFKHEADR | 0 | |
| PFKLEN | 8 | |
| PFKMEMB | C | |
| PFKSTAB | 0 | |
| PFKTAB | 14 | |
| PFKTABLE | 0 | |
| PFKTABNM | 10 | |
| PFKTABPT | 18 | |
| PFKTBNUM | 6 | |
| PFKTCMD | 16 | |
| PFKTCON | 15 | 20 |
| PFKTDEF | 15 | 80 |
| PFKTEND | C14 | |
| PFKTFLGS | 15 | |
| PFKTKEY | 14 | |
| PFKTLEN | 8 | |
| PFKTMST | 15 | 08 |
| PFKTNAME | 0 | |
| PFKTPROC | 15 | 40 |
| PFKTWORK | C | |
| PFKVERSN | 4 | |

PFTE Heading Information

Common Name: PAGE FRAME TABLE ENTRY
Macro ID: IARPFTE
DSECT Name: PFTE
Owning Component: Real Storage Manager (SC1CR)
Eye-Catcher ID: None
Storage Attributes: Virtual Storage: Yes
Subpool: N/A (See Residency)
Key: 0
Residency: Extended Read/Write Nucleus
Size: 32 Bytes
Created by: RSM Initialization

PFTE Map

Pointed to by: PFTFQPTR field of the PFTE Data Area
PFTBQPTR field of the PFTE Data Area
ESTPFTE field of the ESTE Data Area
RITPFTE field of the RIT Data Area
RITLPFTE field of the RIT Data Area
RITFPFTE field of the RIT Data Area
RITPAFQF field of the RIT Data Area
RITPAFQL field of the RIT Data Area
RITNAFQF field of the RIT Data Area
RITNAFQL field of the RIT Data Area
RITPBFQF field of the RIT Data Area
RITPBFQL field of the RIT Data Area
RITNBFQF field of the RIT Data Area
RITNBFQL field of the RIT Data Area
RITTDFQF field of the RIT Data Area
RITTDFQL field of the RIT Data Area
RITBDFQF field of the RIT Data Area
RITBDFQL field of the RIT Data Area
RITSFQF field of the RIT Data Area
RITSFQL field of the RIT Data Area
RITRSFQF field of the RIT Data Area
RITRSFQL field of the RIT Data Area
RITSBFQF field of the RIT Data Area
RITSBFQL field of the RIT Data Area
RITVRFQF field of the RIT Data Area
RITVRFQL field of the RIT Data Area
RITFVR field of the RIT Data Area
RITLVR field of the RIT Data Area
RITNPFTE field of the RIT Data Area
RITPFTEC field of the RIT Data Area
RITSFFQF field of the RIT Data Area
RITSFFQL field of the RIT Data Area
RITSPFQF field of the RIT Data Area
RITSPFQL field of the RIT Data Area
PCBPFTE field of the PCB Data Area
RABPFQF field of the RAB Data Area
RABPFQL field of the RAB Data Area
RABFFQF field of the RAB Data Area
RABFFQL field of the RAB Data Area
RABDFFQF field of the RAB Data Area
RABDFFQL field of the RAB Data Area
Serialization: Varies
Function: Represents a FRAME to RSM

PFTE Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|------------|-----------------------------|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 32 | PFTE | |
| 0 | (0) | ADDRESS | 4 | PFTFQPTR | FORWARD PFTE QUEUE POINTER |
| 4 | (4) | ADDRESS | 4 | PFTBQPTR | BACKWARD PFTE QUEUE POINTER |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|------------|--|
| Dec | Hex | | | | |
| 8 | (8) | CHARACTER | 1 | PFTQID | <p>QUEUE ID FOR CURRENT QUEUE UNLESS THE PFTE IS ON AN AVAILABLE FRAME QUEUE----</p> <p>08=>TOP-DOUBLE-FRAME-QUEUE</p> <p>09=>BOTTOM-DOUBLE-FRAME-QUEUE</p> <p>21=>SQA-FRAME-QUEUE</p> <p>22=>RESERVED-SQA-FRAME-QUEUE</p> <p>23=>REAL-STG-BUF-FRAME-QUEUE</p> <p>24=>V=R-WAITING-FRAME-QUEUE 25=>General Defer Frame</p> <p>Queue 40=>SHARED-PAGE-FIXED-FR-QUEUE</p> <p>41=>SHARED-PAGE-PAGEABLE-FR-QUE EUE</p> <p>81=>PAGEABLE-FRAME-QUEUE 82=>FIXED-FRAME-QUEUE</p> <p>83=>DEFERRED-FREEMAIN-FR-QUEUE</p> <p>A1=>PAGEABLE-DATA-SPACE-FR-QUE</p> <p>A2=>FIXED-DATA-SPACE-FR-QUEUE</p> <p>A3=>DEFERRED-DELETE-FR-QUEUE</p> <p>E0=>PAGEABLE-RDD-FRAME-QUEUE</p> <p>E1=>FIXED-RDD-FRAME-QUEUE</p> <p>E2=>ORPHAN-FRAME-QUEUE</p> <p>F0=>UNQUEUED..DAT-OFF-NUCLEUS</p> <p>F1=>UNQUEUED..READ-ONLY-NUC.</p> <p>F2=>UNQUEUED..READ/WRITE-NUC.</p> <p>F3=>UNQUEUED..RSM DATA FRAME</p> <p>F4=>UNQUEUED..HW-SYSTEM-AREA</p> <p>F5=>UNQUEUED..ABS.-ZERO-FRAME</p> <p>F6=>UNQUEUED..FIXED-LPA/BLDL FD=>A-FLAWED-PFTE</p> <p>FE=>UNQUEUED..UNINITIALIZED FF=>UNQUEUED-PFTE</p> |
| 9 | (9) | UNSIGNED | 1 | PFTUIC | NUMBER OF UPDATE INTERVALS DURING WHICH FRAME WAS NOT REFERENCED |
| 10 | (A) | BITSTRING | 1 | PFTFLGS2 | FLAG BYTE 2 (ALLOCATION FLAGS) |
| | | 1... | | PFTONAFQ | PFTE IS ON AN AFQ |
| | | .1.. | | PFTPERM | FRAME IS BACKING PERMANENT STG |
| | | ..1. | | PFTOFFLN | FRAME IS OFF-LINE |
| | | ...1 | | * | RESERVED |
| | | 1... | | PFTVRWT | FRAME IS WAITING FOR V=R ALLOC. |
| | |1.. | | PFTVRALC | FRAME IS ALLOCATED TO V=R |
| | |1. | | PFTDREF | FRAME IS BACKING A DREF PAGE |
| | |1 | | PFTDSPPG | FRAME IS BACKING A DATA SPACE PAGE |
| 11 | (B) | BITSTRING | 1 | PFTFLGS3 | FLAG BYTE 3 (MISC. FLAGS) |
| | | 1... | | PFTIOCUR | I/O IS CURRENT FOR THIS FRAME |
| | | .1.. | | PFTVRPLT | THIS FRAME IS CURRENTLY POLLUTING THE V=R AREA |
| | | ..1. | | PFTVIORU | THIS FRAME IS VIO REUSABLE |
| | | ...1 | | PFTVRINT | FRAME IS V=R INTERCEPTED |
| | | 1... | | PFTOFINT | FRAME IS OFFLINE INTERCEPTED |
| | |1.. | | PFTNOREC | INTERCEPTED FRAME SUMMARY BIT- THIS FRAME HAS BEEN INTERCEPTED AND SHOULD NOT BE TAKEN UNLESS IT IS SENT TO AN AVAILABLE FRAME QUEUE. ALSO, THE PAGE ASSOCIATED WITH THE FRAME CANNOT BE REVALIDATED WITH A DIFFERENT FRAME IF A REQUEST FOR THE PAGE IS CURRENTLY ON THE DPQ. |
| | |1. | | PFTIOMC | I/O FOR THIS FRAME MUST COMPLETE INTACT. NEITHER THE FRAME NOR THE DATA MAY BE USED UNTIL THE I/O HAS COMPLETED. |
| | |1 | | PFTNOPRF | FRAME SHOULD NOT BE STOLEN BY GETFRAME PREF STEAL |
| 12 | (C) | CHARACTER | 4 | PFTFCWRD | <p>FIX COUNT WORD. SERIALIZED BY COMPARE AND SWAP.</p> <p>NOTE: PFTFXCT MUST ALWAYS BE THE LOW ORDER HALFWORD OF THIS FIELD FOR ?INC/DEC FXCT TO WORK.</p> |

PFTE Map

| Offsets | | | | | |
|---------|------|------------|-----|--------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 12 | (C) | CHARACTER | 1 | PFTFREID | ID OF QUEUE TO WHICH THIS PFTE IS TO BE RETURNED WHEN FREED-- 01=>PREFERRED-ABOVE-AFQ 02=>NON-PREFERRED-ABOVE-AFQ 03=>PREFERRED-BELOW-AFQ 04=>NON-PREFERRED-BELOW-AFQ 08=>TOP-DOUBLE-FRAME-QUEUE 09=>BOTTOM-DOUBLE-FRAME-QUEUE FF=>NON-FREEABLE-PFTE |
| 13 | (D) | BITSTRING | 1 | PFTFLGS1 | FLAG BYTE 1 (PHYSICAL FLAGS). SINCE PFTFCWRD IS DECLARED ABNL, PL/AS WILL GENERATE COMPARE AND SWAP INSTRUCTIONS WHEN UPDATING THESE FLAGS. |
| | | 1... | | PFTPREF | PFTE IS FOR PREFERRED AREA |
| | | .1.. | | PFTBELOW | PFTE IS FOR REAL BELOW 16M |
| | | .1. | | PFTVR | PFTE IS A V=R CANDIDATE |
| | | ...1 1... | | * | RESERVED |
| | |1.. | | PFTSRBSC | SRB HAS BEEN SCHEDULED TO DO FRAME DEALLOCATION. |
| | |1. | | PFTNOUNC | NO UNCORRECTABLE ERRORS HAVE OCCURRED WITHIN THE FRAME. THIS BIT IS MEANINGFUL ONLY WHEN PFTBADFR=1. |
| | |1 | | PFTBADFR | BAD FRAME - DO NOT REALLOCATE |
| 14 | (E) | SIGNED | 2 | PFTFXCT | FIX COUNT FOR THIS FRAME |
| 16 | (10) | CHARACTER | 4 | PFTSER | PFTE SERIALIZATION WORD |
| 16 | (10) | BITSTRING | 2 | PFTSERFL | Flags portion of PftSer |
| | | 1... | | PFTRDS | THIS PFTE IS SERIALIZED BY AN RSMDS LOCK |
| | | .1.. | | PFTSPAGE | THIS PFTE IS IN USE FOR A SHARED PAGE AND IS SERIALIZED BY THE RSMAD/XM/CM/ST LOCK OF COMMON. PFTSDH CONTAINS THE ADDRESS OF THE SDH FOR THE SHARED PAGE GROUP |
| | | ..1. | | PFTLSQA | FRAME IS BACKING SQA OR LSQA |
| | | ...1 | | PFTMEGAROOED | Shared Segment page |
| | | 1111 | | * | RESERVED |
| 17 | (11) | BITSTRING | 1 | PFTRVTEX | THE RVTE INDEX IF PFTRDS=1 |
| 18 | (12) | BITSTRING | 2 | PFTASID | ASID OF CURRENT OR LAST OWNER |
| 20 | (14) | ADDRESS | 4 | PFTVSA | VIRTUAL ADDRESS CURRENTLY OR LAST BACKED BY THIS FRAME |
| 20 | (14) | UNSIGNED | 4 | PFTVIOA | VIO DATA SET PAGE REUSE ARGUMENT - VALID IF PFTVIOU=1 |
| 20 | (14) | ADDRESS | 4 | PFTSDH | ADDRESS OF SHARED DATA HEADER - VALID IF PFTSPAGE=1 |
| 24 | (18) | ADDRESS | 4 | PFTPCB | ADDRESS OF PCB CURRENTLY BEING USED TO DO I/O FOR THIS FRAME (PFTIOCUR=1) OR PCB LAST USED TO DO THE I/O (PFTIOCUR=0) |
| 24 | (18) | BITSTRING | 4 | PFTMEGAR | Shared Segment information |
| 24 | (18) | BITSTRING | 1 | PFTSEGNO | Segment number of the segment backed by this Shared Segment page table |
| 25 | (19) | 1... | | * | Reserved |
| 25 | (19) | BITSTRING | 2 | PFTUDSNX | UDS index for the UDD that was source for the Shared Segment mapped by this page table. |
| 28 | (1C) | CHARACTER | 4 | PFTPROG | DATA SPACE PROGRAMMING WORD. THIS FIELD IS VALID IF PFTDSPPG IS ON AND THE FRAME IS NOT ON THE DDFQ. |
| 28 | (1C) | ADDRESS | 4 | PFTSPE | Address of the SPE for the view which obtained this PFTE. Valid if PFTSPAGE=1 |
| 28 | (1C) | ADDRESS | 4 | PFTTCB | ADDRESS OF THE OWNING TCB IF THE FRAME IS ON THE DDFQ |
| 28 | (1C) | ADDRESS | 4 | PFTESTE | ADDRESS OF THE ESTE FOR THE E-FRAME THAT MAY CONTAIN ANOTHER COPY OF THE DATA IN THIS FRAME |

PFTE Constants

| Len | Type | Value | Name | Description |
|--|------|-------|----------|---|
| Comment | | | | |
| PFTE QUEUE IDS | | | | |
| When adding a QID, examine IARQL for possible hits | | | | |
| End of Comment | | | | |
| 1 | HEX | 01 | PFTPAFQN | PREFERRED ABOVE AFQ |
| 1 | HEX | 02 | PFTNAFQN | NON-PREFERRED ABOVE AFQ |
| 1 | HEX | 03 | PFTPBFQN | PREFERRED BELOW AFQ |
| 1 | HEX | 04 | PFTNBFQN | NON-PREFERRED BELOW AFQ |
| 1 | HEX | 08 | PFTTDFQN | TOP DOUBLE FRAME QUEUE |
| 1 | HEX | 09 | PFTBDFQN | BOTTOM DOUBLE FRAME QUEUE |
| 1 | HEX | 21 | PFTSFQN | SQA FRAME QUEUE |
| 1 | HEX | 22 | PFTRSFQN | RESERVED SQA FRAME QUEUE |
| 1 | HEX | 23 | PFTSBFQN | REAL STG BUFFER FRAME QUEUE |
| 1 | HEX | 24 | PFTVRFQN | V=R WAITING FRAME QUEUE |
| 1 | HEX | 25 | PFTGDFQN | General Defer Frame Queue |
| 1 | HEX | 40 | PFTSFFQN | SHARED PAGE FIXED FRAME QUEUE |
| 1 | HEX | 41 | PFTSPFQN | SHARED PAGE PAGEABLE FRAME QUEUE |
| 1 | HEX | 81 | PFTPFQN | PAGEABLE FRAME QUEUE |
| 1 | HEX | 82 | PFTFFQN | FIXED FRAME QUEUE |
| 1 | HEX | 83 | PFTDFQN | DEFERRED FREEMAIN FRAME Q |
| 1 | HEX | A1 | PFTPDFQN | PAGEABLE DATA SPACE FQ |
| 1 | HEX | A2 | PFTDFQN | FIXED DATA SPACE FQ |
| 1 | HEX | A3 | PFTDDFQN | DEFERED DELETE FRAME Q |
| 1 | HEX | E0 | PFTPRFQN | PAGEABLE RDD FRAME Q |
| 1 | HEX | E1 | PFTFRFQN | FIXED RDD FRAME QUEUE |
| 1 | HEX | E2 | PFTOFQN | ORPHAN FRAME QUEUE |
| 1 | HEX | F0 | PFTDONN | UNQUEUED- DAT-OFF NUCLEUS |
| 1 | HEX | F1 | PFTRONN | UNQUEUED- READ ONLY NUC. |
| 1 | HEX | F2 | PFTRWNN | UNQUEUED- READ/WRITE NUC. |
| 1 | HEX | F3 | PFTIPCN | UNQUEUED- RSM IPCS USE ONLY |
| 1 | HEX | F4 | PFTHSAN | UNQUEUED- HW SYSTEM AREA |
| 1 | HEX | F5 | PFTAZN | UNQUEUED- ABSOLUTE ZERO FR |
| 1 | HEX | F6 | PFTFXAN | UNQUEUED- FIXED LPA |
| 1 | HEX | FC | PFTSADN | RESERVED FOR STAND ALONE DUMP |
| 1 | HEX | FD | PFTFLAWN | UNQUEUED- PFTE WAS FOUND FLAWED DURING RECOVERY |
| 1 | HEX | FE | PFTUNIN | UNQUEUED- UNINITIALIZED |
| 1 | HEX | FF | PFTUNQDN | UNQUEUED |
| 1 | HEX | FF | PFTNOFRN | WHEN IN THE PFTFREID FIELD - THIS PFTE CANNOT BE FREED |
| 1 | HEX | 07 | PFTAQMK | HIGHEST POSSIBLE AVAILABLE FRAME QUEUE ID. |
| 1 | HEX | 20 | PFTRITMK | LOWEST POSSIBLE RIT BASED QUEUE ID (EXCLUDING AFQS AND DOUBLE FRAME QUEUES). |
| 1 | HEX | 2F | PFTGLMK | Highest possible queue id for a PFTE serialized by the RSMGL lock. |
| 1 | HEX | 80 | PFTRABMK | LOWEST POSSIBLE QUEUE ID FOR AN ADDRESS SPACE RELATED QUEUE (RAB, DAB, OR RDD BASED FRAME QUEUE). |
| 1 | HEX | A0 | PFTDABMK | LOWEST POSSIBLE QUEUE ID FOR A DAB BASED FRAME QUE |
| 1 | HEX | E0 | PFTRDDML | LOWEST POSSIBLE QUEUE ID FOR AN RDD BASED FRAME QUE |
| 1 | HEX | E7 | PFTRDDMH | HIGHEST POSSIBLE QUEUE ID FOR AN RDD BASED FRAME QUE |
| 1 | HEX | F0 | PFTUNQMK | LOWEST ID POSSIBLE FOR AN UNQUEUED PFTE. |

PFTE Cross Reference

| Len | Type | Value | Name | Description |
|----------------|------|-------|----------|--|
| Comment | | | | |
| PFTE CONSTANTS | | | | |
| End of Comment | | | | |
| 1 | HEX | FE | PFTKMUIC | MAXIMUM UIC VALUE |
| 1 | HEX | FF | PFTKBUIC | UIC VALUE USED TO INDICATE A BLOCKED PAGE THAT HAS NEVER BEEN REFERENCED |

PFTE Cross Reference

| Name | Hex Offset | Hex Value |
|--------------|------------|-----------|
| PFTASID | 12 | |
| PFTBADFR | D | 01 |
| PFTBELOW | D | 40 |
| PFTBQPTR | 4 | |
| PFTDREF | A | 02 |
| PFTDSPPG | A | 01 |
| PFTE | 0 | |
| PFTESTE | 1C | |
| PFTFCWRD | C | |
| PFTFLGS1 | D | |
| PFTFLGS2 | A | |
| PFTFLGS3 | B | |
| PFTFQPTR | 0 | |
| PFTFREID | C | |
| PFTFXCT | E | |
| PFTIOCUR | B | 80 |
| PFTIOMC | B | 02 |
| PFTLSQA | 10 | 20 |
| PFTMEGAR | 18 | |
| PFTMEGAROOED | 10 | 10 |
| PFTNOPRF | B | 01 |
| PFTNOREC | B | 04 |
| PFTNOUNC | D | 02 |
| PFTOFFLN | A | 20 |
| PFTOFINT | B | 08 |
| PFTONAFQ | A | 80 |
| PFTPCB | 18 | |
| PFTPERM | A | 40 |
| PFTPREF | D | 80 |
| PFTPROG | 1C | |
| PFTQID | 8 | |
| PFTRDS | 10 | 80 |
| PFTRVTEX | 11 | |
| PFTSDH | 14 | |
| PFTSEGNO | 18 | |
| PFTSER | 10 | |
| PFTSERFL | 10 | |
| PFTSPAGE | 10 | 40 |
| PFTSPE | 1C | |
| PFTSRBSC | D | 04 |
| PFTTCB | 1C | |
| PFTUDSNX | 19 | |
| PFTUIC | 9 | |
| PFTVIORA | 14 | |
| PFTVIORU | B | 20 |
| PFTVR | D | 20 |
| PFTVRALC | A | 04 |
| PFTVRINT | B | 10 |
| PFTVRPLT | B | 40 |
| PFTVRWT | A | 08 |
| PFTVSA | 14 | |

PICA Programming Interface information

Programming Interface information

PICA

End of Programming Interface information

PICA Heading Information

Common Name: Program Interrupt Control Area
Macro ID: IHAPICA
DSECT Name: PICA
Owning Component: Recovery Termination Manager (SCRTM)
Eye-Catcher ID: None
Storage Attributes: Subpool: User
 Key: User
Size: 8 bytes
Created by: A PICA is created and initialized by the executable code produced by the expansion of the SPIE macro during an assembly of the source program.
Pointed to by: PIEPICA field of the PIE data area
Serialization: Local Lock and Task Active mode
Function: Contains: a) The program mask to be used in the PSW.
 b) The user SPIE exit routine address.
 c) The interruption mask which identifies the program check interruptions which the user SPIE exit routine will service.

PICA Map

| Offsets | | | | | |
|---------|-----|------------|-----|--------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | PICA | |
| 0 | (0) | SIGNED | 4 | PICAEXIT (0) | - |
| 0 | (0) | BITSTRING | 1 | PICAPRMK | - PROGRAM MASK TO BE USED IN THE PSW - BITS 0-3 ARE ZERO; BITS 4-7 CONTAIN MASK |
| 1 | (1) | ADDRESS | 3 | PICEXITA | - ADDRESS OF THE USER'S PROGRAM INTER- RUPTION EXIT RTN |
| 4 | (4) | SIGNED | 4 | PICAITMK (0) | - MASK WHICH INDICATES ON WHICH PROGRAM INTERRUPTION TYPES THE EXIT RTN IS TO BE USED - LENGTH IS 4 BYTES. |
| 4 | (4) | BITSTRING | 1 | PICITMK1 | - |
| | | 1... | | PICAEXT | "X'80" - AN EXTENDED PICA IS IN EFFECT |
| | | .1.. | | PICACD1 | "X'40" - OPERATION |
| | | .1. | | PICACD2 | "X'20" - PRIVILEGED OPERATION |
| | | ...1 | | PICACD3 | "X'10" - EXECUTE |
| | | 1... | | PICACD4 | "X'08" - PROTECTION |
| | |1.. | | PICACD5 | "X'04" - ADDRESSING |
| | |1. | | PICACD6 | "X'02" - SPECIFICATION |
| | |1 | | PICACD7 | "X'01" - DATA INTRPT HANDLED |
| 5 | (5) | BITSTRING | 1 | PICITMK2 | - |
| | | 1... | | PICACD8 | "X'80" - FIXED-POINT OVERFLOW |
| | | .1.. | | PICACD9 | "X'40" - FIXED-POINT DIVIDE |
| | | .1. | | PICACD10 | "X'20" - DECIMAL OVERFLOW |
| | | ...1 | | PICACD11 | "X'10" - DECIMAL DIVIDE |
| | | 1... | | PICACD12 | "X'08" - EXPONENT OVERFLOW |
| | |1.. | | PICACD13 | "X'04" - EXPONENT UNDERFLOW |
| | |1. | | PICACD14 | "X'02" - SIGNIFICANCE |
| | |1 | | PICACD15 | "X'01" - FLOATING-POINT DIVIDE |
| 6 | (6) | BITSTRING | 1 | PICITMK3 | - |
| | | .1.. | | PICACD17 | "X'40" - PAGE TRANSLATION |
| 7 | (7) | BITSTRING | 1 | PICITMK4 | - |

PICA Cross Reference

| Name | Hex Offset | Hex Value |
|-------------|-----------------------|----------------------|
| PICA | 0 | |
| PICACD1 | 4 | 40 |
| PICACD10 | 5 | 20 |
| PICACD11 | 5 | 10 |
| PICACD12 | 5 | 8 |
| PICACD13 | 5 | 4 |
| PICACD14 | 5 | 2 |
| PICACD15 | 5 | 1 |
| PICACD17 | 6 | 40 |
| PICACD2 | 4 | 20 |
| PICACD3 | 4 | 10 |
| PICACD4 | 4 | 8 |
| PICACD5 | 4 | 4 |
| PICACD6 | 4 | 2 |
| PICACD7 | 4 | 1 |
| PICACD8 | 5 | 80 |
| PICACD9 | 5 | 40 |
| PICAEXIT | 0 | |
| PICAEXT | 4 | 80 |
| PICAITMK | 4 | |
| PICAPRMK | 0 | |
| PICEXITA | 1 | |
| PICITMK1 | 4 | |
| PICITMK2 | 5 | |
| PICITMK3 | 6 | |
| PICITMK4 | 7 | |

PIE Programming Interface information

| | | |
|--|--|--|
| | Programming Interface information | |
| | <u>PIE</u> | |
| | End of Programming Interface information | |

PIE Heading Information

Common Name: Program Interruption Element
Macro ID: IHAPIE
DSECT Name: PIE
Owning Component: Recovery Termination Manager (SCRTM)
Eye-Catcher ID: None
Storage Attributes: Subpool: 130 or 250
 Key: TCB Key
Size: 32 bytes
Created by: IEAVTESP
Pointed to by: Register 1 upon entry to a SPIE exit routine. Also can be found via the SCAPIE field of the SCA data area.
Serialization: Task Active
Function: The PIE is used to pass program interruption information to a SPIE exit routine.

PIE Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|-------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | PIE | |
| 0 | (0) | X'80' | 0 | BIT0 | "128" |
| 0 | (0) | X'40' | 0 | BIT1 | "64" |
| 0 | (0) | X'20' | 0 | BIT2 | "32" |
| 0 | (0) | X'10' | 0 | BIT3 | "16" |
| 0 | (0) | X'8' | 0 | BIT4 | "8" |
| 0 | (0) | X'4' | 0 | BIT5 | "4" |
| 0 | (0) | X'2' | 0 | BIT6 | "2" |
| 0 | (0) | X'1' | 0 | BIT7 | "1" |
| 0 | (0) | SIGNED | 4 | PIEPICA (0) | - ADDRESS OF THE CURRENT PICA |
| 0 | (0) | BITSTRING | 1 | PIEFLGS | - FLAG BYTE |
| | | 1... | | PIENOPI | "BIT0" - IF ONE, INDICATES THAT THE TASK CANNOT ACCEPT FURTHER PI'S |
| 1 | (1) | ADDRESS | 3 | PIEPICAA | - ADDRESS OF THE CURRENT PICA |
| 4 | (4) | CHARACTER | 8 | PIEPSW | - BC MODE PSW STORED AT PROGRAM INTERRUPT TIME @P1C |
| 12 | (C) | SIGNED | 4 | PIEGR14 | - SAVE AREA FOR REGISTER 14 |
| 16 | (10) | SIGNED | 4 | PIEGR15 | - SAVE AREA FOR REGISTER 15 |
| 20 | (14) | SIGNED | 4 | PIEGR0 | - SAVE AREA FOR REGISTER 0 |
| 24 | (18) | SIGNED | 4 | PIEGR1 | - SAVE AREA FOR REGISTER 1 |
| 28 | (1C) | SIGNED | 4 | PIEGR2 | - SAVE AREA FOR REGISTER 2 |

PIE Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|---------|------------|-----------|----------|------------|-----------|
| BIT0 | 0 | 80 | PIEGR2 | 1C | |
| BIT1 | 0 | 40 | PIENOPI | 0 | 80 |
| BIT2 | 0 | 20 | PIEPICA | 0 | |
| BIT3 | 0 | 10 | PIEPICAA | 1 | |
| BIT4 | 0 | 8 | PIEPSW | 4 | |
| BIT5 | 0 | 4 | | | |
| BIT6 | 0 | 2 | | | |
| BIT7 | 0 | 1 | | | |
| PIE | 0 | | | | |
| PIEFLGS | 0 | | | | |
| PIEGR0 | 14 | | | | |
| PIEGR1 | 18 | | | | |
| PIEGR14 | C | | | | |
| PIEGR15 | 10 | | | | |

PPD Heading Information

Common Name: Primary Pool Descriptor (VSM Cell Pool)
Macro ID: IGVPPD
DSECT Name: PPD
Owning Component: VSM (SC1CH)
Eye-Catcher ID: PPD
 Offset: 0
 Length: 4
Storage Attributes: Residency: ESQA or ELSQA, Above 16M line
Size: PPD -- X'0038' bytes
 SUBPOOL & KEY 245 OR 255, KEY 0
 STORAGE ESTIMATE 1 PER CELL POOL
Created by: IGVCBBLD
Pointed to by: GDAPPDFX, GDAPPDPG, LDAPPD, PPDNEXT, PXTPPD
Serialization: CML/LOCAL, VSMPAG, OR VSMFIX LOCK
Function: This block contains information and base pointers for a cell pool built using the CPOOL VSM service.

PPD Map

| Offsets | | | | | |
|---------|------|------------|-----|------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 56 | PPD | |
| 0 | (0) | CHARACTER | 4 | PPDID | CONTROL BLOCK IDENTIFIER |
| 4 | (4) | ADDRESS | 4 | PPDCPID | CELL POOL ID |
| 4 | (4) | ADDRESS | 4 | PPDPXT | ADDRESS OF PRIMARY EXTENT |
| 8 | (8) | ADDRESS | 4 | PPDSPD | POINTER TO TOP SPD IN LIFO QUEUE |
| 12 | (C) | SIGNED | 4 | PPDPCNT | PRIMARY CELL COUNT |
| 16 | (10) | SIGNED | 4 | PPDSCNT | SECONDARY CELL COUNT |
| 20 | (14) | SIGNED | 2 | PPDSPID | HALFWORD SUBPOOL ID |
| 20 | (14) | CHARACTER | 1 | * | RESERVED |
| 21 | (15) | UNSIGNED | 1 | PPDSP | SUBPOOL ID |
| 22 | (16) | CHARACTER | 1 | PPDKEY | PROTECTION KEY (IN BITS 4-7) |
| 23 | (17) | CHARACTER | 1 | PPDFLGS | FLAG FIELD |
| | | 1... | | PPDRLOC | WHEN 1, INDICATES THE REAL(ANY) OPTION OF LOC WAS SPECIFIED |
| | | .11. | | PPDVLOC | WHEN 00, LOC=RES. WHEN 01, LOC= BELOW. WHEN 11, LOC=ANY |
| | | ...1 | | PPDTCBF | WHEN 1 TCB WAS SPECIFIED |
| | | 1... | | PPDKEYF | WHEN 1 KEY WAS SPECIFIED |
| | |1.. | | PPDHDRF | WHEN 1 HDR WAS SPECIFIED |
| | |11 | | PPDOWNR | 00=Home, 01=Primary, 11=System |
| 24 | (18) | ADDRESS | 4 | PPDTCB | TCB ADDRESS |
| 28 | (1C) | SIGNED | 4 | PPDCSIZE | CELL SIZE |
| 32 | (20) | SIGNED | 4 | PPDPSIZE | SIZE OF PRIMARY EXTENT |
| 36 | (24) | SIGNED | 4 | PPDSSIZE | SIZE OF SECONDARY EXTENT |
| 40 | (28) | ADDRESS | 4 | PPDASCB | ASCB ADDRESS |
| 44 | (2C) | ADDRESS | 4 | PPDNEXT | POINTER TO NEXT PPD ON LDA OR GDA PPD CHAIN |
| 48 | (30) | SIGNED | 4 | PPDINDX | INDEX OF MOST RECENT ENTRY IN MOST RECENT SPD |
| 52 | (34) | CHARACTER | 1 | PPDFLGS2 | |
| | | 1... | | PPDRLO64 | WHEN 1, INDICATES REAL(ANY64) OPTION OF LOC WAS SPECIFIED |
| | | .1.. | | PPDQWORD | When 1, indicates that pool elements need to be on QWORD boundary. It is assumed that the cell size is a multiple of 16 |
| 53 | (35) | CHARACTER | 3 | * | FOR DOUBLEWORD BOUNDARY |

PPD Constants • PPD Cross Reference

PPD Constants

| Len | Type | Value | Name | Description |
|-----|------|-------|-----------------|-------------|
| 0 | BIT | 00 | PPDOWNR_HOME | |
| 0 | BIT | 01 | PPDOWNR_PRIMARY | |
| 0 | BIT | 11 | PPDOWNR_SYSTEM | |

PPD Cross Reference

| Name | Hex Offset | Hex Value |
|----------|------------|-----------|
| PPD | 0 | |
| PPDASCB | 28 | |
| PPDCPID | 4 | |
| PPDCSIZE | 1C | |
| PPDFLGS | 17 | |
| PPDFLGS2 | 34 | |
| PPDHDRF | 17 | 04 |
| PPDID | 0 | |
| PPDINDX | 30 | |
| PPDKEY | 16 | |
| PPDKEYF | 17 | 08 |
| PPDNEXT | 2C | |
| PPDOWNR | 17 | 03 |
| PPDPCNT | C | |
| PPDPSIZE | 20 | |
| PPDPXT | 4 | |
| PPDQWORD | 34 | 40 |
| PPDRLOC | 17 | 80 |
| PPDRLO64 | 34 | 80 |
| PPDSCNT | 10 | |
| PPDSP | 15 | |
| PPDSPD | 8 | |
| PPDSPID | 14 | |
| PPDSSIZE | 24 | |
| PPDTCB | 18 | |
| PPDTCBF | 17 | 10 |
| PPDVLOC | 17 | 60 |

PPT Programming Interface information

Programming Interface information

PPT

The following fields are **NOT** programming interface information:

- | | | | |
|------------|------------|------------|-----------|
| • PPT | • PPTENTS | • PPTIB650 | • PPTOLD |
| • PPTCVERS | • PPTHDR | • PPTID | • PPTUSED |
| • PPTENTLN | • PPTHURLN | • PPTMSGAD | • PPTVERS |

End of Programming Interface information

PPT Heading Information

Common Name: Program Properties Table Mapping Macro
Macro ID: IEFZB610
DSECT Name: PPT, PPT1
Owning Component: Initiator/Subsystem Interface (SC1B6)
Eye-Catcher ID: - PPT: 'PPT '
- PPT1: None
Offset: - PPT: 0
- PPT1: n/a
Length: - PPT: 4 bytes
- PPT1: n/a
Storage Attributes: Subpool: 231 (common)
Key: 0
Size: - PPT: 32 bytes
- PPT1: 16 bytes
FREQUENCY:
- PPT: 1 per MVS Image
- PPT1: 1 per program property table entry
Created by: IEFPPPT - Program properties statement processor
Pointed to by: The IEFPPSCN macro should be used to access the PPT table entries.
Serialization: Use of macro IEFPPSCN will protect the user from updates to the table as a result of a SET SCH= command.
Function: Mapping of the Program Properties Table Header and Table Entries

PPT Map

| Offsets | | | | | |
|---------|------|------------|-----|------------|---------------------------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | PPT | |
| 0 | (0) | CHARACTER | 32 | PPTHDR (0) | |
| 0 | (0) | CHARACTER | 4 | PPTID | IDENTIFIER 'PPT ' |
| 4 | (4) | BITSTRING | 1 | PPTVERS | VERSION NUMBER |
| | |1 | | PPTCVERS | "X'01" CURRENT VERSION NUMBER |
| 5 | (5) | BITSTRING | 1 | | RESERVED |
| 6 | (6) | SIGNED | 2 | PPTHDRLN | LENGTH OF PPT HEADER |
| 8 | (8) | SIGNED | 2 | PPTENTLN | LENGTH OF A PPT ENTRY |
| 10 | (A) | SIGNED | 2 | PPTUSED | NUMBER OF USED PPT ENTRIES |
| 12 | (C) | SIGNED | 2 | PPTENTS | TOTAL NUMBER OF PPT ENTRIES |
| 14 | (E) | SIGNED | 2 | | RESERVED |
| 16 | (10) | BITSTRING | 4 | PPTMSGAD | ADDRESS OF MSGAREA USED IN IEFPPPT |
| 20 | (14) | BITSTRING | 4 | PPTIB650 | ADDRESS OF MESSAGE MODULE IEFIB650 |
| 24 | (18) | ADDRESS | 4 | PPTOLD | ADDRESS OF NEXT LOGICALLY DELETED PPT |
| 28 | (1C) | CHARACTER | 4 | | RESERVED |

| Offsets | | | | | |
|---------|-----|------------|-----|--------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | PPT1 | |
| 0 | (0) | CHARACTER | 16 | PPTENTRY (0) | MAPPING OF A PPT ENTRY |
| 0 | (0) | CHARACTER | 8 | PPTNAME | PROGRAM NAME |
| 8 | (8) | CHARACTER | 1 | PPTBYTE1 | FIRST BYTE OF PROPERTIES |
| | | 1... | | PPTNCNCL | "X'80" THIS PROGRAM IS NON-CANCELABLE |
| | | .1.. | | PPTSKEY | "X'40" THIS PROGRAM REQUIRES THE SPECIAL PROTECT Y02656 KEY IN PPTKEY Y02656 |

| Offsets | | | | | |
|---|-----|------------|-----|-------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| | | ..1. | | PPTNSWP | "X'20" THIS PROGRAM IS TO BE AUTHORIZED TO BE Y02669 NON-SWAPPABLE Y02669 |
| | | ...1 | | PPTPRIV | "X'10" THIS PROGRAM IS TO BE 'PRIVILEGED' (WITH Y02655 RESPECT TO THE SYSTEM RESOURCES MANAGER) Y02655 |
| | | 1... | | PPTSYSYK | "X'08" THIS PROGRAM IS A SYSTEM TASK Y02652 |
| | |1.. | | PPTNSDI | "X'04" THIS PROGRAM IS NOT TO BE GIVEN DATA SET Y02652 INTEGRITY Y02652 |
| | |1. | | PPTNOPAS | "X'02" BYPASS PASSWORD PROTECTION Y02656 |
| Comment | | | | | |
| THE REMAINING BIT IS RESERVED | | | | | |
| End of Comment | | | | | |
| 9 | (9) | CHARACTER | 1 | PPTKEY | - THIS KEY IS TO BE GIVEN TO THE PROGRAM Y02656 BEING ATTACHED IF PPTSKEY IS ON Y02656 |
| Comment | | | | | |
| THE EQUATES FOR PROTECT KEYS FOLLOW, TO INSURE THAT Y02651 PROTECT KEYS ARE DEFINED AS THE HIGH ORDER 4 BITS OF Y02651 THE BYTE. KEYS 9-15 ARE FOR V=R PROGRAMS and Key 9 is only used when the Subpool Override is not enabled. | | | | | |
| End of Comment | | | | | |
|  |  | .... .... |  | PPTKEY0 | "X'00" Y02651 |
| | | ...1 | | PPTKEY1 | "X'10" Y02651 |
| | | ..1. | | PPTKEY2 | "X'20" Y02651 |
| | | ..11 | | PPTKEY3 | "X'30" Y02651 |
| | | .1.. | | PPTKEY4 | "X'40" Y02651 |
| | | .1.1 | | PPTKEY5 | "X'50" Y02651 |
| | | .11. | | PPTKEY6 | "X'60" Y02651 |
| | | .111 | | PPTKEY7 | "X'70" Y02651 |
| | | 1... | | PPTKEY8 | "X'80" Y02651 |
| | | 1..1 | | PPTKEY9 | "X'90" |
| | | 1.1. | | PPTKEYA | "X'A0" |
| | | 1.11 | | PPTKEYB | "X'B0" |
| | | 11.. | | PPTKEYC | "X'C0" |
| | | 11.1 | | PPTKEYD | "X'D0" |
| | | 111. | | PPTKEYE | "X'E0" |
| | | 1111 | | PPTKEYF | "X'F0" |
| 10 | (A) | BITSTRING | 2 | PPTCPUA | BIT MASK OF CPU'S ON WHICH THIS PROGRAM CAN Y02669 RUN (SHOULD BE X'FFFF' IF AFFINITY IS NOT Y02669 REQUIRED) Y02669 |
| 12 | (C) | SIGNED | 4 | PPTFLGS (0) | FLAG BYTES |
| 12 | (C) | CHARACTER | 1 | PPTPUBYT | PREFERRED USAGE FLAGS |
| | | 1... | | PPT2LPU | "X'80" 2ND LEVEL PREFERRED USAGE |
| | | .1.. | | PPT1LPU | "X'40" 1ST LEVEL PREFERRED USAGE |
| | | ..1. | | PPTN2LP | "X'20" NOT 2ND LEVEL PREFERRED USAGE |
| Comment | | | | | |
| THE REMAINING BITS ARE RESERVED | | | | | |
| End of Comment | | | | | |
| 13 | (D) | CHARACTER | 1 | PPTORIG | PPT ENTRY ORIGIN |
| | | 1... | | PPTDEFLT | "X'80" FROM IBM SUPPLIED DEFAULT TABLE |
| Comment | | | | | |
| THE REMAINING BITS ARE RESERVED | | | | | |
| End of Comment | | | | | |

PPT Cross Reference

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|------------|-----------------------------|
| Dec | Hex | | | | |
| 14 | (E) | CHARACTER | 2 | | RESERVED |
| 14 | (E) | X'10' | 0 | PPTLEN | "*-PPT1" LENGTH OF AN ENTRY |

PPT Cross Reference

| Name | Hex Offset | Hex Value |
|----------|------------|-----------|
| PPT | 0 | |
| PPTBYTE1 | 8 | |
| PPTCPUA | A | |
| PPTCVERS | 4 | 1 |
| PPTDEFLT | D | 80 |
| PPTENTLN | 8 | |
| PPTENTRY | 0 | |
| PPTENTS | C | |
| PPTFLGS | C | |
| PPTHDR | 0 | |
| PPTHDRLN | 6 | |
| PPTIB650 | 14 | |
| PPTID | 0 | |
| PPTKEY | 9 | |
| PPTKEYA | 9 | A0 |
| PPTKEYB | 9 | B0 |
| PPTKEYC | 9 | C0 |
| PPTKEYD | 9 | D0 |
| PPTKEYE | 9 | E0 |
| PPTKEYF | 9 | F0 |
| PPTKEY0 | 9 | 0 |
| PPTKEY1 | 9 | 10 |
| PPTKEY2 | 9 | 20 |
| PPTKEY3 | 9 | 30 |
| PPTKEY4 | 9 | 40 |
| PPTKEY5 | 9 | 50 |
| PPTKEY6 | 9 | 60 |
| PPTKEY7 | 9 | 70 |
| PPTKEY8 | 9 | 80 |
| PPTKEY9 | 9 | 90 |
| PPTLEN | E | 10 |
| PPTMSGAD | 10 | |
| PPTNAME | 0 | |
| PPTNCNCL | 8 | 80 |
| PPTNDSI | 8 | 4 |
| PPTNOPAS | 8 | 2 |
| PPTNSWP | 8 | 20 |
| PPTN2LP | C | 20 |
| PPTOLD | 18 | |
| PPTORIG | D | |
| PPTPRIV | 8 | 10 |
| PPTPUBYT | C | |
| PPTSKEY | 8 | 40 |
| PPTSYSTK | 8 | 8 |
| PPTUSED | A | |
| PPTVERS | 4 | |
| PPT1 | 0 | |
| PPT1LPU | C | 40 |
| PPT2LPU | C | 80 |

PQCB Heading Information

Common Name: PLACEHOLDER QUEUE CONTROL BLOCK
Macro ID: ISGPQCB
DSECT Name: PQCB, PQCBX
Owning Component: Global Resource Serialization (SCSDS)
Eye-Catcher ID: PQCBX
 Offset: 4
 Length: 5
Storage Attributes: Subpool: 127
 Key: 0
Size: PQCB: 72 bytes
 PQCBX: 332 bytes
Created by: The GRS Queue Scanning Services Module (ISGQSC) obtains the PQCB and PQCBX from the GRS Storage Manager.
Pointed to by: PQCBNQCB, PQCBPQCB, QCBNQCB, QCBPQCB, QHTEFQCB, AND QHTELQCB
Serialization: The CMSEQDQ lock is required to access the PQCB
 Additionally:
 To add/remove PQCB from the global QHT:
 The GRS local lock must be held
 To add/remove PQCB from the local QHT:
 The CMSEQDQ lock must be held
Function: THE PLACEHOLDER QCB CONTAINS THE INFORMATION NECESSARY TO RESUME A GRS QUEUE SCANNING REQUEST. ALL RESOURCES BEFORE THIS PLACEHOLDER QCB HAVE BEEN SCANNED WHEREAS ALL RESOURCES FOLLOWING THIS PLACEHOLDER QCB STILL HAVE TO BE SCANNED IN ORDER TO SATISFY THE ORIGINAL GRS QUEUE SCANNING REQUEST.

PQCB Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 72 | PQCB | PLACEHOLDER QUEUE CONTROL BLOCK |
| 0 | (0) | CHARACTER | 40 | PQCBBASC | PQCB BASIC SECTION (NOTE THAT THIS MAPS IDENTICALLY TO THE BASIC SECTION OF A QCB) |
| 0 | (0) | ADDRESS | 4 | PQCBNQCB | ADDRESS OF NEXT QCB ON SYNONYM CHAIN |
| 4 | (4) | ADDRESS | 4 | PQCBPQCB | ADDRESS OF PREVIOUS QCB ON SYNONYM CHAIN |
| 8 | (8) | ADDRESS | 4 | PQCBFQEL | ADDRESS OF FIRST QEL FOR THIS PLACEHOLDER QCB |
| 12 | (C) | ADDRESS | 4 | PQCBLQEL | ADDRESS OF LAST QEL FOR THIS PLACEHOLDER QCB |
| 16 | (10) | ADDRESS | 4 | PQCBQHTE | ADDRESS OF QUEUE HASH TABLE ENTRY ON WHICH THIS PLACEHOLDER QCB IS CHAINED |
| 20 | (14) | ADDRESS | 4 | PQCBEXT | Pointer to PQCB extension |
| 24 | (18) | UNSIGNED | 2 | * | Reserved |
| 26 | (1A) | UNSIGNED | 1 | PQCBDFLG | DESCRIPTOR FLAGS |
| | | 1... | | PQCBDRS1 | RESERVED - MUST BE ZERO |
| | | .1.. | | PQCBDRS2 | RESERVED - MUST BE ZERO |
| | | ..1. | | PQCBDRS3 | RESERVED - MUST BE ZERO |
| | | ...1 | | * | Reserved |
| | | 1... | | PQCBDRS5 | RESERVED - MUST BE ZERO |
| | |1.. | | PQCBPHDR | PLACEHOLDER QCB FLAG (1 - THIS QCB IS A PLACEHOLDER QCB, 0 - THIS QCB IS A RESOURCE QCB). NOTE THAT A PQCB DOES NOT DEFINE A RESOURCE REQUEST. |
| | |1. | | PQCBDRS6 | RESERVED - MUST BE ZERO |

PQCB Map

| Offsets | | | | | |
|---------|------|------------|-----|------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 27 | (1B) |1 | 1 | PQCBDRS7 | RESERVED - MUST BE ZERO |
| | | 1... | | PQCBFLG2 | Second byte of flags |
| | | .1.. | | PQCBSTAR | PQCB is a Star mode, global request |
| | | ..11 1111 | | PQCBQUED | PQCB has been queued to a QHT entry |
| 28 | (1C) | | 12 | * | Reserved |
| | | CHARACTER | | PQCBRS02 | RESERVED - MUST BE ZERO |
| | | ADDRESS | | PQCBPQEL | ADDRESS OF QEL WHERE SCAN IS TO RESUME OR ZERO |
| | | CHARACTER | | * | Reserved |
| 44 | (2C) | UNSIGNED | 24 | PQCBQHTI | QUEUE HASH TABLE INDEX THAT THE SCAN IS TO RESUME ON |
| 70 | (46) | BITSTRING | 1 | PQCBSFLG | SCANNING STATUS FLAGS |
| | | 1... | | PQCBLQHT | LOCAL QHT SCAN FLAG (1 - SCANNING LOCAL QHT, 0 - NOT SCANNING LOCAL QHT) |
| | | | | PQCBGQHT | GLOBAL QHT SCAN FLAG (1 - SCANNING GLOBAL QHT, 0 - NOT SCANNING GLOBAL QHT) |
| | | .1.. | | PQCBGGRA | GGRA scan flag (1 - scanning GGRA, 0 - not scanning GGRA) |
| | | ...1 | | PQCBCLS | COMPLETED LOCAL QHT SCAN (1 - COMPLETED LOCAL QHT SCAN, 0 - NOT COMPLETED) |
| | | 1... | | PQCBCSS | COMPLETED GLOBAL QHT SCAN (1 - COMPLETED GLOBAL QHT SCAN, 0 - NOT COMPLETED) |
| | |1.. | | PQCBCGG | Completed GGRA scan (1 - completed GGRA scan, 0 - not completed) |
| | |11 | | * | Reserved |
| | | UNSIGNED | | * | Reserved |
| 71 | (47) | CHARACTER | 1 | PQCBEND | END OF PQCB |

| Offsets | | | | | |
|---------|------|------------|-----|------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 332 | PQCBX | PQCB Extension |
| 0 | (0) | CHARACTER | 5 | PQCBX_ID | Control block id: PQCBX |
| 5 | (5) | BITSTRING | 1 | PQCBX_FLAGS1 | PQCBX flags1 |
| | | 1... | | PQCBX_SCAN2OLD | The GQSCAN represented by this PQCBX is too old and has been abandoned and it's GGRA and FGRBs have been released. ISGQNX saves the time the token is processed in QELTOD. |
| 6 | (6) | CHARACTER | 2 | * | Reserved |
| 8 | (8) | CHARACTER | 4 | PQCBX_STARMODEPOINTERS | Pointers used for Star Mode GQSCAN |
| 8 | (8) | ADDRESS | 4 | PQCBX_GGRA@ | Pointer to Global GQSCAN request anchor associated with this request |
| 12 | (C) | CHARACTER | 48 | PQCBX_PARAMETERLIST | Parameter list from original GQSCAN invocation |
| 60 | (3C) | CHARACTER | 8 | PQCBX_SYSTEMNAME | System name associated with the GQSCAN request |
| 68 | (44) | CHARACTER | 264 | PQCBX_RESOURCE | Resource associated with the GQSCAN request |

Comment

The following two fields should remain contiguous. The pair is used as input to ISGSGLH.

End of Comment

| | | | | | |
|-----|-------|-----------|-----|-------------|--|
| 68 | (44) | CHARACTER | 8 | PQCBX_QNAME | Input QNAME |
| 76 | (4C) | CHARACTER | 255 | PQCBX_RNAME | Input RNAME |
| 331 | (14B) | CHARACTER | 1 | * | This additional byte is used when the RNAME length is rounded up to be a multiple of 4. This is only needed when the RNAME exceeds 252 bytes in length for ISGSHASH. |

PQCB Constants

| Len | Type | Value | Name | Description |
|----------------|-----------|-------|-----------|--------------------------------------|
| Comment | | | | |
| PQCB constants | | | | |
| End of Comment | | | | |
| 5 | CHARACTER | PQCBX | PQCBX_KID | PQCBX control block acronym: 'PQCBX' |

PQCB Cross Reference

| Name | Hex Offset | Hex Value |
|------------------------|------------|-----------|
| PQCB | 0 | |
| PQCBBASC | 0 | |
| PQCBBCGG | 46 | 04 |
| PQCBCLS | 46 | 10 |
| PQCBCSS | 46 | 08 |
| PQCBDFLG | 1A | |
| PQCBDRS1 | 1A | 80 |
| PQCBDRS2 | 1A | 40 |
| PQCBDRS3 | 1A | 20 |
| PQCBDRS5 | 1A | 08 |
| PQCBDRS6 | 1A | 02 |
| PQCBDRS7 | 1A | 01 |
| PQCBEND | 48 | |
| PQCBEXT | 14 | |
| PQCBFLG2 | 1B | |
| PQCBFQEL | 8 | |
| PQCBGGRA | 46 | 20 |
| PQCBGQHT | 46 | 40 |
| PQCBLOEL | C | |
| PQCBLOHT | 46 | 80 |
| PQCBNQCB | 0 | |
| PQCBPHDR | 1A | 04 |
| PQCBPQCB | 4 | |
| PQCBPQEL | 28 | |
| PQCBQHTE | 10 | |
| PQCBQHTI | 44 | |
| PQCBQUED | 1B | 40 |
| PQCBRS02 | 1C | |
| PQCBSFLG | 46 | |
| PQCBSTAR | 1B | 80 |
| PQCBX | 0 | |
| PQCBX_FLAGS1 | 5 | |
| PQCBX_GGRA@ | 8 | |
| PQCBX_ID | 0 | |
| PQCBX_PARAMETERLIST | C | |
| PQCBX_QNAME | 44 | |
| PQCBX_RESOURCE | 44 | |
| PQCBX_RNAME | 4C | |
| PQCBX_SCAN2OLD | 5 | 80 |
| PQCBX_STARMODEPOINTERS | 8 | |
| PQCBX_SYSTEMNAME | 3C | |

PRA Heading Information

Common Name: Page Service Protect/Unprotect Recording Area (Audit Trail Block)
Macro ID: IARPRA
DSECT Name: PRA
Owning Component: Real Storage Manager (SC1CR)
Eye-Catcher ID: None
Storage Attributes: Virtual Storage: Yes
 Subpool: 245, ESQA (Fixed Common)
 Key: 0
 Residency: Anywhere in virtual storage
Size: 40 bytes
Created by: IARPYPRO
Pointed to by: RCEPRTBL
Serialization: Compare and Swap
Function: This control block maps the area set aside for recording
 information about the issuance of PGSER PROTECT and UNPROTECT
 by authorized callers.

PRA Map

| Offsets | | | | | |
|---------|------|------------|-----|------------|-------------------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 40 | PRA | Label for PRA |
| 0 | (0) | ADDRESS | 4 | PRASADDR | Start address of the range |
| 4 | (4) | ADDRESS | 4 | PRAEADDR | End address of the range |
| 8 | (8) | CHARACTER | 8 | PRATIMES | TimeStamp |
| 16 | (10) | CHARACTER | 8 | PRAJOBNM | Jobname |
| 24 | (18) | CHARACTER | 8 | PRAUSER | User ID |
| 32 | (20) | ADDRESS | 4 | PRATCB | TCB Address or 0 for SRB Mode |
| 36 | (24) | SIGNED | 2 | PRAASID | ASID |
| 38 | (26) | UNSIGNED | 1 | PRAFUNC | Function Code (see IHAPSL) |
| 39 | (27) | CHARACTER | 1 | * | Reserved |
| 40 | (28) | CHARACTER | 0 | PRAFINIS | This is the end of the PRA |

PRA Cross Reference

| Name | Hex Offset | Hex Value |
|----------|---------------|--------------|
| PRA | 0 | |
| PRAASID | 24 | |
| PRAEADDR | 4 | |
| PRAFINIS | 28 | |
| PRAFUNC | 26 | |
| PRAJOBNM | 10 | |
| PRASADDR | 0 | |
| PRATCB | 20 | |
| PRATIMES | 8 | |
| PRAUSER | 18 | |

PRMESTAE Heading Information

Common Name: MAPPING MACRO FOR COMMON ALLOCATION ESTAE PARMS
Macro ID: IEFZB447
DSECT Name: PRMESTAE
Owning Component: Allocation (SC1B4)
Eye-Catcher ID: None
Storage Attributes: Subpool: 230 SIZE (total) = 512 Bytes (20,480 for entire structure including Autodata area)
 Key: Key 1
 Residency: Above (32-bit virtual,64-bit real)
Size: ????????
Created by: IEFAB421, IEFAB4C2, IEFAB4C4
Pointed to by: EXITPRMP in the ALCWA
 Access the Autodata address via EXITPRMP->PRMEAUTO_PTR.
 Note: The Autodata area is pointed to by field PRMEAUTO_PTR in the PRMESTAE structure. The buffer zones in the structure mapping the entire area are not pointed to, and are not intended to be used.
Serialization: None
Function: THIS PARAMETER LIST IS CREATED AND INITIALIZED BY IEFAB421, and also by service modules IEFAB4C2 and IEFAB4C4, AND SUBSEQUENTLY, UPDATED BY VARIOUS ALLOCATION MODULES. THE LIST SERVES AS INPUT TO THE COMMON ALLOCATION ESTAE ROUTINE (IEFAB4E8) IF AN ABEND OCCURS DURING COMMON ALLOCATION PROCESSING. IT ALSO SUPPLIES SOME INFORMATION TO THE UPDATE UC FRR ROUTINE (IEFAB4E6). THIS LIST CONTAINS FLAGS INDICATING WHAT RESOURCES ARE HELD AT THE TIME OF THE ABEND AND WHAT CLEANUP FUNCTIONS ARE TO BE PERFORMED. IT ALSO SUPPLIES PTRS AND OTHER INFORMATION NEEDED TO PERFORM THE CLEANUP. THE AUTOMATIC DATA AREA SUPPLIED IN THIS LIST IS USED BY IEFAB4E8. This macro includes the mapping for the parameter list itself, the Autodata area for ESTAE Exit Routines to use, and a structure mapping the entire area to storage obtain.

PRMESTAE Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|--------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 512 | PRMESTAE | ESTAE PARAMETER LIST |
| 0 | (0) | ADDRESS | 4 | PRMEAUTO_PTR | Pointer to Autodata area for exit routine |
| 4 | (4) | BITSTRING | 1 | PRMRESC | RESOURCES HELD |
| | | 1... | | ENQQ4 | ENQUEUED ON Q4 |
| | | .1.. | | DDRQ | ENQUEUED ON DDR QUEUE |
| | | ..1. | | CHNGQ | ENQUEUED ON CHANGE QUEUE |
| | | ...1 | | DSSTAP | DSS TAPE BIT |
| | | 1... | | DSSUNREC | DSS UNIT RECORD BIT |
| | |1.. | | TPQ | ENQUEUED ON TP QUEUE |
| | |1. | | MLWTO | DOM MULTILINE WTO |
| | |1 | | PENDFOOT | PENDING PROCESS ACTIVE |
| 5 | (5) | BITSTRING | 1 | PRMFUNC | FUNCTIONS NEEDED |
| | | 1... | | GENCLNUP | CALL GENERIC CLEANUP RTN |
| | | .1.. | | UPDSABCK | ZERO SIOT DSAB PTR |
| | | ..1. | | DSABCHN | Fix up below the line DSAB chain |

PRMESTAE Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|--|------|------------|-----|--------------------|--|
| Dec | Hex | | | | |
| | | ...1 | | TIOTBLT | TIOT ENTRY BUILT |
| | | 1... | | DUMPOK | |
| | |1.. | | FREECORE | FREE QUEUE MANAGER BLOCK |
| | |1. | | VMVCALL | CALL VM&V CLEANUP RTN |
| | |1 | | PRMRETRY | RETRY REQUESTED |
| 6 | (6) | SIGNED | 2 | PRMASID | ASID |
| 8 | (8) | ADDRESS | 4 | PRMSIOTP | SIOT PTR |
| 12 | (C) | ADDRESS | 4 | PRMUCBP | UCB PTR |
| 16 | (10) | ADDRESS | 4 | PRMQMGP | PTR TO Q-MGR PARMS |
| 20 | (14) | SIGNED | 4 | PRMQMBLN | LENGTH OF Q-MGR BLOCK |
| 24 | (18) | ADDRESS | 4 | PRMQMBP | PTR TO Q-MGR BLOCK TO FREE |
| 28 | (1C) | ADDRESS | 4 | PRMQDBP | PTR TO DSAB QDB |
| 32 | (20) | ADDRESS | 4 | PRMDSQL | Ptr to last DSAB in below the line DSAB queue |
| 36 | (24) | ADDRESS | 4 | PRMDSQF | Ptr to first DSAB in below the line DSAB queue |
| 40 | (28) | SIGNED | 4 | PRMNELM | NO, ELEMENTS IN DSAB QUEUE |
| 44 | (2C) | SIGNED | 4 | PRMWTOID | DOM ID OF MULTILINE WTO |
| 48 | (30) | ADDRESS | 4 | PRMAERBP | PTR TO AERB |
| 52 | (34) | ADDRESS | 4 | PRMJSCBP | PTR TO JSCB |
| 56 | (38) | BITSTRING | 1 | PRMFUNC2 | FUNCTION REQUIRED |
| | | 1... | | WRTBUF | WRITE MESSAGE BUFFER |
| | | .1.. | | VSERSTOR | Free the storage obtained for the VOLSER table via the GETMAIN macro |
| | | ..1. | | OFFLSTOR | Free the storage obtained for the Device Offline table via the GETMAIN macro |
| | | ...1 | | MSGBUFF | Free the message buffer obtained via IEEMIFSV |
| | | 1... | | PRMGPMASK | Indicates that the Group Mask storage must be freed |
| Comment | | | | | |
| Deleted PRMDSTBQ Removed SYSZDSTB ENQ/DEQ support. | | | | | |
| End of Comment | | | | | |
| | |1.. | | DSABCHA | Fix up above or below the line DSAB chain |
| | |11 | | * | Not used and available |
| 57 | (39) | BITSTRING | 1 | PRMFOOTS | Footprints are dumped to VRA by IEFAB4ED. |
| | | 1... | | PRMSECC | Security system has been called when set. |
| | | .1.. | | PRMSECR | Security system has returned when set. |
| | | ..11 1111 | | * | Reserved. |
| 58 | (3A) | BITSTRING | 1 | PRMRESC2 | Resources held #2 |
| | | 1... | | ENQVDEV | Enqueued on VARYDEV |
| | | .1.. | | PRM_LOCALLOCK | Local lock held |
| | | ..1. | | PRM_CMSLOCK | CMS Lock held |
| | | ...1 1111 | | * | Reserved. |
| 59 | (3B) | CHARACTER | 1 | * | Reserved. |
| 60 | (3C) | ADDRESS | 4 | PRMALCWA | ADDR OF ALCWA |
| 64 | (40) | ADDRESS | 4 | PRMASPTR | Anchor of the ATS Service Rtn Recovery Blocks - it points to the newest block on the chain |
| 68 | (44) | ADDRESS | 4 | PRMVADDR | Address of the storage obtained for the VOLSER table |
| 72 | (48) | SIGNED | 4 | PRMVSIZE | Size of the storage obtained for the VOLSER table |
| 76 | (4C) | ADDRESS | 4 | PRMOADDR | Address of the storage obtained for the Offline Device table |
| 80 | (50) | SIGNED | 4 | PRMOSIZE | Size of the storage obtained for the Offline Device table |
| 84 | (54) | ADDRESS | 4 | PRMMBTKN | Message buffer token |
| 88 | (58) | CHARACTER | 2 | PRMNUM_WTOID | Number of IEF877E messages issued by IEFAB48A that need to be DOMed (PRMWTOID_Table_Ptr points to the array of message IDs). |
| 90 | (5A) | UNSIGNED | 2 | PRMARRAY_LENGTH | Length of DOMID array |
| 92 | (5C) | ADDRESS | 4 | PRMWTOID_TABLE_PTR | Pointer to the array of message IDs that need to be DOMed (built by IEFAB48A) |
| 96 | (60) | ADDRESS | 4 | PRMCUCBP | Pointer to the Captured UCB (filled in by IEFAB428 if the UCB to be replaced for SMS was previously captured and needs to be uncaptured) |
| 100 | (64) | UNSIGNED | 4 | PRMGMSIZ | Size of the Group Mask |

| Offsets | | | | | |
|---------|-------|------------|-----|------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 104 | (68) | ADDRESS | 4 | PRMGMPTR | Pointer to the Group Mask |
| 108 | (6C) | ADDRESS | 4 | PRMDSQLA | Ptr to last DSAB in above or below the line DSAB queue |
| 112 | (70) | ADDRESS | 4 | PRMDSQFA | Ptr to first DSAB in above or below the line DSAB queue |
| 116 | (74) | SIGNED | 4 | PRMNELA | Number of elements on the above or below the line DSAB queue |
| 120 | (78) | CHARACTER | 392 | * | Reserved - Keep PRMESTAE 512 bytes in length (space is available for use). |
| 512 | (200) | CHARACTER | 0 | * | Finish on DWORD Bdy |

| Offsets | | | | | |
|---------|-----|------------|-----|------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 4 | MSGIDS (*) | Array of message ids that need to be DOMed |
| 0 | (0) | SIGNED | 4 | MSG_ID | |

| Offsets | | | | | |
|---------|--------|------------|-------|-------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 20480 | PRMESTAE_AREA | Structure to Getmain containing PRMESTAE parm list and ESTAE Exit Autodata storage on PAGE boundary |
| 0 | (0) | CHARACTER | 512 | PRMESTAE_PARMAREA | Area for actual PRMESTAE parameter list |
| 512 | (200) | CHARACTER | 3584 | PRMESTAE_BUFFER | Buffer zone between Parm area and Autodata area, so as to start AUTODATA area on PAGE boundary |
| 4096 | (1000) | CHARACTER | 16384 | PRMEAUTO | ESTAE Exit Autodata area (4 dataregs worth) |

PRMESTAE Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|-----------------|------------|-----------|-------------------|------------|-----------|
| CHNGQ | 4 | 20 | PRMEAUTO | 1000 | |
| DDRQ | 4 | 40 | PRMEAUTO_PTR | 0 | |
| DSABCHA | 38 | 04 | PRMESTAE | 0 | |
| DSABCHN | 5 | 20 | PRMESTAE_AREA | 0 | |
| DSSTAP | 4 | 10 | PRMESTAE_BUFFER | 200 | |
| DSSUNREC | 4 | 08 | PRMESTAE_PARMAREA | 0 | |
| DUMPOK | 5 | 08 | PRMFOOTS | 39 | |
| ENQQ4 | 4 | 80 | PRMFUNC | 5 | |
| ENQVDEV | 3A | 80 | PRMFUNC2 | 38 | |
| FREECORE | 5 | 04 | PRMGMPTR | 68 | |
| GENCLNUP | 5 | 80 | PRMGMSIZ | 64 | |
| MLWTO | 4 | 02 | PRMGPMASK | 38 | 08 |
| MSG_ID | 0 | | PRMJSCBP | 34 | |
| MSGBUFF | 38 | 10 | PRMMBTKN | 54 | |
| MSGIDS | 0 | | PRMNELA | 74 | |
| OFFLSTOR | 38 | 20 | PRMNELM | 28 | |
| PENDFOOT | 4 | 01 | PRMNUM_WTOID | 58 | |
| PRM_CMSLOCK | 3A | 20 | PRMOADDR | 4C | |
| PRM_LOCALLOCK | 3A | 40 | PRMOSIZE | 50 | |
| PRMAERBP | 30 | | PRMQDBP | 1C | |
| PRMALCWA | 3C | | PRMQMBLN | 14 | |
| PRMARRAY_LENGTH | 5A | | PRMQMBP | 18 | |
| PRMASID | 6 | | PRMQMGP | 10 | |
| PRMASPTR | 40 | | PRMRESC | 4 | |
| PRMCUCBP | 60 | | PRMRESC2 | 3A | |
| PRMDSQF | 24 | | PRMRETRY | 5 | 01 |
| PRMDSQFA | 70 | | PRMSECC | 39 | 80 |
| PRMDSQL | 20 | | | | |
| PRMDSQLA | 6C | | | | |

PRMESTAE Cross Reference

| Name | Hex Offset | Hex Value |
|--------------------|---------------|--------------|
| PRMSECR | 39 | 40 |
| PRMSIOTP | 8 | |
| PRMUCBP | C | |
| PRMVADDR | 44 | |
| PRMVSIZE | 48 | |
| PRMWTOID | 2C | |
| PRMWTOID_TABLE_PTR | 5C | |
| TIOTBLT | 5 | 10 |
| TPQ | 4 | 04 |
| UPDSABCK | 5 | 40 |
| VMVCALL | 5 | 02 |
| VSERSTOR | 38 | 40 |
| WRTBUF | 38 | 80 |

PSA Programming Interface information

Programming Interface information

PSA

ONLY the following fields are part of the programming interface information:

- FLCARCH
- FLCCVT
- FLCFACL
- PSAAOLD
- PSATOLD

End of Programming Interface information

PSA Heading Information

Common Name: Prefixed Save Area
Macro ID: IHAPSA
DSECT Name: PSA
Owning Component: Supervisor Control (SC1C5)
Eye-Catcher ID: None
Storage Attributes: Subpool: 239
Key: 0
Residency: Below 16 MB line
Size: 4096 bytes
Created by: IEAVFX00
IEAVNIPO
IEEVCPRP
Pointed to by: The PSA maps the storage that starts at location 0 for the related processor.
Serialization: Disablement.
None needed for FLCFACL.
Function: Maps fixed hardware and software storage locations for the related processor.

PSA Map

| Offsets | | | | | |
|---------|------|------------|-----|--------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | PSA | |
| 0 | (0) | X'0' | 0 | FLC | *** |
| 0 | (0) | CHARACTER | 8 | FLCIPPSW (0) | - IPL PSW |
| 0 | (0) | BITSTRING | 4 | FLCRNPSW | -RESTART NEW PSW (AFTER IPL) MDC001 |
| 4 | (4) | ADDRESS | 4 | | "V(IEAVRSTR)" - SECOND HALF OF RESTART NEW PSW MDC128 |
| 4 | (4) | X'0' | 0 | IPLPSW | "FLCIPPSW" --- ALIAS |
| 8 | (8) | CHARACTER | 8 | FLCICCW1 (0) | - IPL CCW1 |
| 8 | (8) | BITSTRING | 8 | FLCROPSW | - RESTART OLD PSW (AFTER IPL) |
| 16 | (10) | CHARACTER | 8 | FLCICCW2 (0) | - IPL CCW2 |
| 16 | (10) | ADDRESS | 4 | FLCCVT | "V(IEACVT)" - ADDRESS OF CVT (AFTER IPL). THIS OFFSET FIXED BY ARCHITECTURE. (MDC450) |
| 20 | (14) | BITSTRING | 4 | | - RESERVED (AFTER IPL) (MDC431) |
| 24 | (18) | BITSTRING | 8 | FLCEOPSW | - EXTERNAL OLD PSW |
| 24 | (18) | X'18' | 0 | EXOPSW | "FLCEOPSW" --- ALIAS |
| 32 | (20) | BITSTRING | 8 | FLCSOPSW | - SVC OLD PSW. THIS OFFSET FIXED BY ARCHITECTURE. (MDC451) |
| 32 | (20) | X'20' | 0 | SVCOPSW | "FLCSOPSW" --- ALIAS |
| 40 | (28) | BITSTRING | 8 | FLCPOPSW | - PROGRAM CHECK OLD PSW |
| 40 | (28) | X'28' | 0 | PIOPSW | "FLCPOPSW" --- ALIAS |
| 48 | (30) | BITSTRING | 8 | FLCMOPSW | - MACHINE CHECK OLD PSW |
| 48 | (30) | X'30' | 0 | MCOPSW | "FLCMOPSW" --- ALIAS |
| 56 | (38) | BITSTRING | 8 | FLCIOPSW | - INPUT/OUTPUT OLD PSW |
| 56 | (38) | X'38' | 0 | IOOPSW | "FLCIOPSW" --- ALIAS |
| 64 | (40) | BITSTRING | 12 | | - RESERVED |
| 76 | (4C) | ADDRESS | 4 | FLCCVT2 | "V(IEACVT)" - ADDRESS OF CVT - USED BY DUMP ROUTINES ICB319 |
| 80 | (50) | BITSTRING | 4 | | - RESERVED |
| 84 | (54) | BITSTRING | 4 | | - RESERVED - FLCTRACE DELETED DUE TO SYSTEM TRACE REDESIGN. |
| 88 | (58) | BITSTRING | 4 | FLCENPSW | -EXTERNAL NEW PSW |
| 92 | (5C) | ADDRESS | 4 | | "V(IEAQEX00)" - SECOND HALF OF EXTERNAL NEW PSW |
| 92 | (5C) | X'58' | 0 | EXNPSW | "FLCENPSW" --- ALIAS |
| 96 | (60) | BITSTRING | 4 | FLCSNPSW | -SVC NEW PSW |
| 100 | (64) | ADDRESS | 4 | | "V(IEAQSC00)" - SECOND HALF OF SVC NEW PSW |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|--------------|---|
| Dec | Hex | | | | |
| 100 | (64) | X'60' | 0 | SVCNPSW | "FLCSNPSW" --- ALIAS |
| 104 | (68) | BITSTRING | 4 | FLCPNPSW | - PROGRAM CHECK NEW PSW, DISABLED FOR MACHINE CHECKS. |
| 108 | (6C) | ADDRESS | 4 | | "V(IEAQP00)" - SECOND HALF OF PROGRAM CHECK NEW PSW |
| 108 | (6C) | X'68' | 0 | PINPSW | "FLCPNPSW" --- ALIAS |
| 112 | (70) | BITSTRING | 4 | FLCMNPSW | -MACHINE CHECK NEW PSW MDC003 |
| 116 | (74) | ADDRESS | 4 | | "V(IGFPM00)" - SECOND HALF OF MACHINE CHECK NEW PSW |
| 116 | (74) | X'70' | 0 | MCNPSW | "FLCMNPSW" --- ALIAS |
| 120 | (78) | BITSTRING | 4 | FLCINPSW | -INPUT/OUTPUT NEW PSW |
| 124 | (7C) | ADDRESS | 4 | | "V(IEAQIO00)" - SECOND HALF OF I/O NEW PSW |
| 124 | (7C) | X'78' | 0 | IONPSW | "FLCINPSW" --- ALIAS |
| 128 | (80) | SIGNED | 4 | PSAEPARM | - EXTERNAL INTERRUPTION PARAMETER FIELD. (MDC473) |
| 132 | (84) | SIGNED | 4 | PSAEEPSW (0) | - EXTENDED PSW DATA STORED ON EXTERNAL INTERRUPT MDC084 |
| 132 | (84) | SIGNED | 2 | PSASPAD | - ISSUING PROCESSOR'S PHYSICAL ADDRESS ON MFA, EMS, OR EXTERNAL CALL INTERRUPT MDC046 |
| 134 | (86) | SIGNED | 2 | FLCEICOD | - EXTERNAL INTERRUPTION CODE |
| 134 | (86) | X'86' | 0 | EXCODE | "FLCEICOD" --- ALIAS |
| 136 | (88) | SIGNED | 4 | PSAESPSW (0) | - EXTENDED PSW DATA STORED ON SVC INTERRUPT MDC085 |
| 136 | (88) | BITSTRING | 1 | | - RESERVED - SET TO ZERO |
| 137 | (89) | SIGNED | 1 | FLCSVILC | - SVC INSTRUCTION LENGTH COUNTER - NUMBER OF BYTES. THIS OFFSET FIXED BY ARCHITECTURE. (MDC454) |
| | |111 | | FLCSILCB | "X'07'" - SIGNIFICANT BITS IN ILC FIELD - LAST BIT IS ALWAYS ZERO MDC080 |
| 137 | (89) | X'89' | 0 | SVCILC | "FLCSVILC" --- ALIAS |
| 138 | (8A) | SIGNED | 2 | FLCSVCN | - SVC INTERRUPTION CODE - SVC NUMBER. THIS OFFSET FIXED BY ARCHITECTURE. (MDC455) |
| 138 | (8A) | X'8A' | 0 | SVCNUM | "FLCSVCN" --- ALIAS |
| 140 | (8C) | CHARACTER | 8 | PSAEPSPW (0) | - EXTENDED PSW FOR PROGRAM INTERRUPT MDC086 |
| 140 | (8C) | BITSTRING | 1 | | - RESERVED - SET TO ZERO |
| 141 | (8D) | SIGNED | 1 | FLCPIILC | - PROGRAM INTERRUPT LENGTH COUNTER - NUMBER OF BYTES IN INSTRUCTION CAUSING PROGRAM INTERRUPTION. THIS OFFSET FIXED BY ARCHITECTURE. (MDC456) |
| | |111 | | FLCPILCB | "X'07'" - SIGNIFICANT BITS IN ILC FIELD - LAST BIT IS ALWAYS ZERO MDC083 |
| 141 | (8D) | X'8D' | 0 | PIILC | "FLCPIILC" --- ALIAS |
| 142 | (8E) | SIGNED | 2 | FLCPICOD (0) | - PROGRAM INTERRUPTION CODE |
| 142 | (8E) | X'8E' | 0 | PICODE | "FLCPICOD" --- ALIAS |
| 142 | (8E) | SIGNED | 1 | PSAEECOD | - EXCEPTION-EXTENSION CODE. |
| 143 | (8F) | SIGNED | 1 | PSAPICOD | - 8-BIT INTERRUPT CODE. THIS OFFSET FIXED BY ARCHITECTURE. (MDC457) |
| | | 1... | | PSAPIPER | "X'80'" - PER INTERRUPT OCCURRED MDC089 |
| | | .1.. | | PSAPIMC | "X'40'" - MONITOR CALL INTERRUPT OCCURRED MDC090 |
| | | ..11 1111 | | PSAPIPC | "X'3F'" - AN UNSOLICITED PROGRAM CHECK HAS OCCURRED IF ANY OF THESE 6 BITS ARE ON MDC091 |
| 144 | (90) | SIGNED | 4 | FLCTEA (0) | - TRANSLATION EXCEPTION ADDRESS. THIS OFFSET FIXED BY ARCHITECTURE. |
| 144 | (90) | BITSTRING | 3 | | - |
| | | 1... | | FLCTEAXM | "X'80'" - IF 0 FLCTEA IS RELATIVE TO THE PRIMARY SEGMENT TABLE IF 1 FLCTEA IS RELATIVE TO THE SECONDARY SEGMENT TABLE |
| 147 | (93) | BITSTRING | 1 | FLCDXC (0) | - Data exception code for PI 7 |
| 147 | (93) | BITSTRING | 1 | FLCTEAB3 | - LAST BYTE OF TEA. |
| | |1.. | | FLCSOPI | "X'04'" - Suppression on protection flag |
|  |  | .... .... |  | FLCTSTDP | "X'00'" - IF 1, THE PRIMARY STD WAS USED. |
| | |1 | | FLCTSTDA | "X'01'" - IF 1, THE STD WAS AR QUALIFIED. |
| | |1. | | FLCTSTDs | "X'02'" - IF 1, THE SECONDARY STD WAS USED. |
| | |11 | | FLCTSTDH | "X'03'" - IF 1, THE HOME STD WAS USED. |
| 147 | (93) | BITSTRING | 0 | FLCTEACL | "X'7FFF000'" Mask to leave only TEA address |
| 148 | (94) | BITSTRING | 1 | | - RESERVED - SET TO ZERO |

PSA Map

| Offsets | | | | | |
|---------|-------|------------|-----|---------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 149 | (95) | BITSTRING | 1 | FLCMCNUM | - MONITOR CLASS NUMBER |
| 150 | (96) | BITSTRING | 1 | FLCPERCD | - PROGRAM EVENT RECORDING CODE |
| 151 | (97) | BITSTRING | 1 | FLCATMID | - ATM ID |
| | | 1... | | FLCPSWB4 | "X'80'" PSW.4 part of ATMID |
| 152 | (98) | ADDRESS | 4 | FLCPER | - PER ADDRESS - ESA/390 |
| 156 | (9C) | BITSTRING | 1 | | - RESERVED - SET TO ZERO |
| 157 | (9D) | BITSTRING | 3 | FLCMTRCD | - MONITOR CODE (ESA/390) |
| 160 | (A0) | BITSTRING | 1 | FLCTEARN | - CONTAINS THE ACCESS REGISTER NUMBER INVOLVED IN THE TRANSLATION EXCEPTION IF BITS 30-31 OF THE TEA='01'. |
| 161 | (A1) | BITSTRING | 1 | FLCPERRN | - CONTAINS THE PER STORAGE ACCESS REGISTER NUMBER. |
| 162 | (A2) | BITSTRING | 1 | | - RESERVED. |
| 163 | (A3) | BITSTRING | 1 | FLCARCH | - Architecture information |
| | |1 | | PSAESAME | "X'01'" - z/Architecture |
| | |1 | | PSAZARCH | "X'01'" - z/Architecture |
| 164 | (A4) | ADDRESS | 4 | PSAMPL | "V(IHAMPL)" - MPL ADDRESS. THIS OFFSET FIXED BY ARCHITECTURE. (MDC418) |
| 168 | (A8) | BITSTRING | 344 | (0) | - MACHINE CHECK LOGOUT AREA |
| 168 | (A8) | BITSTRING | 16 | | - RESERVED (ESA/390) |
| 184 | (B8) | BITSTRING | 8 | FLCIOCDP (0) | - I/O INFORMATION CODE |
| 184 | (B8) | BITSTRING | 4 | FLCSID | - SUBSYSTEM ID |
| 188 | (BC) | BITSTRING | 4 | FLCIOFP | - I/O INTERRUPTION PARAMETER |
| 192 | (C0) | BITSTRING | 8 | | - RESERVED |
| 200 | (C8) | BITSTRING | 4 | FLCFACL | - Facilities List. See FLCFacilitiesList in IHAPSAE for description |
| 204 | (CC) | BITSTRING | 8 | | - RESERVED |
| 212 | (D4) | ADDRESS | 4 | FLCESAR | - Absolute address of 4k extended save area (ESA/390 only) |
| 216 | (D8) | BITSTRING | 8 | FLCCTSA | - CPU-TIMER SAVE AREA (FROM STORE- STATUS OR MACHINE-CHECK) ESA/390 |
| 224 | (E0) | BITSTRING | 8 | FLCCCSA | - CLOCK-COMPARATOR SAVE AREA (FROM STORE-STATUS OR MACHINE-CHECK) ESA/390 |
| 232 | (E8) | BITSTRING | 8 | FLCMCIC | - MACHINE-CHECK INTERRUPTION CODE |
| 240 | (F0) | BITSTRING | 8 | | - RESERVED - SET TO ZERO |
| 248 | (F8) | ADDRESS | 4 | FLCFSA | - FAILING STORAGE ADDRESS |
| 252 | (FC) | BITSTRING | 4 | | - RESERVED - SET TO ZERO |
| 256 | (100) | BITSTRING | 16 | FLCFLA | - FIXED LOGOUT AREA. SIZE FIXED BY ARCHITECTURE. |
| 272 | (110) | BITSTRING | 16 | FLCRV110 | - RESERVED. |
| 288 | (120) | SIGNED | 4 | FLCARSAV (16) | - ACCESS REGISTER SAVE AREA |
| 352 | (160) | BITSTRING | 32 | FLCFPSAV | - FLOATING POINT REGISTER SAVE AREA |
| 384 | (180) | SIGNED | 4 | FLCGRSAV (16) | - GENERAL REGISTER SAVE AREA |
| 448 | (1C0) | SIGNED | 4 | FLCCRSAV (16) | - CONTROL REGISTER SAVE AREA |
| 512 | (200) | DBL WORD | 8 | FLCHDEND (0) | - END OF HARDWARE ASSIGNMENTS |
| 512 | (200) | CHARACTER | 4 | PSAPSA | - CONTROL BLOCK ACRONYM IN EBCDIC |
| 516 | (204) | SIGNED | 2 | PSACPUPA | - PHYSICAL CPU ADDRESS (CHANGED DURING ACR) (MDC130) YM3489 |
| 518 | (206) | SIGNED | 2 | PSACPULA | - LOGICAL CPU ADDRESS |
| 520 | (208) | ADDRESS | 4 | PSAPCCAV | - VIRTUAL ADDRESS OF PCCA |
| 524 | (20C) | ADDRESS | 4 | PSAPCCAR | - REAL ADDRESS OF PCCA |
| 528 | (210) | ADDRESS | 4 | PSALCCAV | - VIRTUAL ADDRESS OF LCCA |
| 532 | (214) | ADDRESS | 4 | PSALCCAR | - REAL ADDRESS OF LCCA |
| 536 | (218) | ADDRESS | 4 | PSATNEW | - TCB pointer. Field maintained for code compatability with previous MVS releases. DO NOT USE. |
| 536 | (218) | X'218' | 0 | IEATCBP | "PSATNEW" - ALIAS |
| 540 | (21C) | ADDRESS | 4 | PSATOLD | - Pointer to current TCB or zero if in SRB mode. Field fixed by architecture |
| 544 | (220) | ADDRESS | 4 | PSAANEW | "V(IEAMASCB)" ASCB pointer. Field maintained for code compatability with previous MVS releases. DO NOT USE. |
| 548 | (224) | ADDRESS | 4 | PSAAOLD | - Pointer to the home (current) ASCB. Architecture is dependent on the offset of this field. |
| 552 | (228) | BITSTRING | 4 | PSASUPER (0) | - SUPERVISOR CONTROL WORD. THIS OFFSET FIXED BY ARCHITECTURE. (MDC462) |
| 552 | (228) | BITSTRING | 1 | PSASUP1 | - FIRST BYTE OF PSASUPER |
| | | 1... | | PSAIO | "X'80'" - I/O FLIH |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|------------|--|
| Dec | Hex | | | | |
| 553 | (229) | .1.. | 1 | PSASVC | "X'40" - SVC FLIH |
| | | ..1. | | PSAEXT | "X'20" - EXTERNAL FLIH |
| | | ...1 | | PSAPI | "X'10" - PROGRAM CHECK FLIH |
| | | 1.. | | PSALOCK | "X'08" - LOCK ROUTINE |
| | |1.. | | PSADISP | "X'04" - DISPATCHER |
| | |1. | | PSATCTL | "X'02" - TCTL RECOVERY FLAG (MDC310) |
| | |1 | | PSATYPE6 | "X'01" - TYPE 6 SVC IN CONTROL (MDC311) |
| | | BITSTRING | | PSASUP2 | - SECOND BYTE OF PSASUPER |
| | | 1... | | PSAIPCRI | "X'80" - REMOTE IMMEDIATE SIGNAL SERVICE ROUTINE (IEAVERI) |
| | | .1.. | | PSASVCR | "X'40" - SUPER FRR USES FOR SVC FLIH RECURSION TRACKING |
| | | ..1. | | PSASVCRR | "X'20" - SVC RECOVERY RECURSION INDICATOR. OWNER: SUPERVISOR CONTROL. SERIALIZATION: DISABLEMENT. |
| | |1.. | | PSAACR | "X'04" - AUTOMATIC CPU RECONFIGURATION (ACR) IN CONTROL MDC119 |
| | |1. | | PSARTM | "X'02" - RECOVERY TERMINATION MONITOR (RTM) IN CONTROL MDC120 |
| | |1 | | PSALCR | "X'01" - USED BY RTM TO SERIALIZE CALLS OF THE SUPERVISOR ANALYSIS ROUTER |
| 554 | (22A) | BITSTRING | 1 | PSASUP3 | - THIRD BYTE OF PSASUPER |
| | | 1... | | PSAIOSUP | "X'80" - IF ON, A MAINLINE IOS COMPONENT SUCH AS CHANNEL SCHEDULER HAS ENTERED A PHYSICALLY DISABLED STATE WITHOUT REGARD TO LOCKING REQUIREMENTS MDC027 |
| | | ...1 | | PSASPR | "X'10" - SUPER FRR IS ACTIVE (MDC305) |
| | | 1.. | | PSAESTA | "X'08" - SVC 60 RECOVERY ROUTINE ACTIVE (MDC312) |
| | |1.. | | PSARSM | "X'04" - REAL STORAGE MANAGER (RSM) ENTERED FOR PAGE FIX (MDC321) |
| | |1. | | PSAULCMS | "X'02" - LOCK MANAGER UNCONDITIONAL LOCAL OR CMS LOCK ROUTINES (MDC469) |
| | |1 | | PSASLIP | "X'01" - IEAVTSLP RECURSION CONTROL BIT (MDC471) |
| | | BITSTRING | | PSASUP4 | - FOURTH BYTE OF PSASUPER |
| | | 1... | | PSALDWT | "X'80" - BLWLDWT IS IN CONTROL TO LOAD A RESTARTABLE OR NON-RESTARTABLE WAIT STATE CODE OWNERSHIP: LDWT |
| | | .1.. | | PSASMF | "X'40" - SMF SUSPEND/RESET (MDC599) |
| 556 | (22C) | ..1. | 16 | PSAESAR | "X'20" - SUPERVISOR ANALYSIS ROUTER IS ACTIVE |
| 572 | (23C) | BITSTRING | 1 | PSARV22C | - RESERVED |
| 573 | (23D) | BITSTRING | 1 | PSAAXP | - PROCESSOR TYPE INDICATOR OWNERSHIP: SUPERVISOR CONTROL SERIALIZATION: READ = NONE WRITE = DISABLEMENT. |
| | | 1... | | PSAILS | "X'80" INDICATES AXP |
| | | 1... | | PSAILSIO | - INTERRUPT HANDLER LINKAGE STACK INDICATORS. "X'80" - THE I/O FLIH IS USING THE INTERRUPT HANDLER LINKAGE STACK. |
| | | .1.. | | PSAILSEX | "X'40" - THE EXTERNAL FLIH IS USING THE INTERRUPT HANDLER LINKAGE STACK. |
| | | ..1. | | PSAILSPC | "X'20" - THE PROGRAM FLIH IS USING THE INTERRUPT HANDLER LINKAGE STACK. |
| | | ...1 | | PSAILSDDS | "X'10" - THE DISPATCHER IS USING THE INTERRUPT HANDLER LINKAGE STACK. |
| | | 1.. | | PSAILSRS | "X'08" - THE RESTART FLIH IS USING THE INTERRUPT HANDLER LINKAGE STACK. |
| | |1.. | | PSAILSOR | "X'04" - EXIT IS USING THE INTERRUPT HANDLER LINKAGE STACK. |
| | |1. | | PSAILST6 | "X'02" - TYPE 6 SVC IS USING THE INTERRUPT HANDLER LINKAGE STACK. |
| | |1 | | PSAILSLK | "X'01" - THE INTERRUPT HANDLER LINKAGE STACK IS ACTIVE BECAUSE THE RSM LOCK OR A LOCK HIGHER THAN THE RSM LOCK IS HELD. |

PSA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|--------------|---|
| Dec | Hex | | | | |
| 574 | (23E) | BITSTRING | 2 | PSALSVCI | - LAST SVC ISSUED ON THIS PROCESSOR PRIOR TO ENABLEMENT BY THE SVC FLIH. OWNERSHIP: SUPERVISOR CONTROL. SERIALIZATION: DISABLEMENT |
| 576 | (240) | BITSTRING | 1 | PSAFLAGS | - SYSTEM FLAGS OWNERSHIP: SUPERVISOR CONTROL SERIALIZATION: DISABLEMENT |
| | | 1... .. | | PSAAEIT | "X'80" - ADDRESSING ENVIRONMENT IS IN TRANSITION. INDICATES THAT THE SPACE TYPE (ADDRESS SPACE OR SUBSPACE) ASSOCIATED WITH PASN OR SASN IS UNKNOWN. |
| | | .1.. | | PSAFPAC | "X'40" FP simulation is active on this CPU. |
| | | ..1. | | PSAFPPE | "X'20" Program-interrupt expected (i.e., accessing user data). |
| 577 | (241) | BITSTRING | 10 | PSARV241 | RESERVED FOR FUTURE USE - SC1C5. |
| 587 | (24B) | BITSTRING | 1 | PSASCAFF | \$\$\$CAFFOLD |
| | | 1... | | PSAEMEMA | "X'80" \$\$\$CAFFOLD: z/Architecture |
| 588 | (24C) | ADDRESS | 4 | PSALKCRF | LINKAGE STACK POINTER SAVE AREA. USED WHEN THE RSM OR ANY LOCK ABOVE THE RSM LOCK IS HELD. |
| 592 | (250) | DBL WORD | 8 | (0) | - ALIGN PSAMPSW TO DOUBLE WORD |
| 592 | (250) | BITSTRING | 8 | PSAMPSW | - SETLOCK MODEL PSW |
| | |1. | | PSAPIOM | "X'02" INPUT/OUTPUT INTERRUPT MASK |
| | |1 | | PSAPEXM | "X'01" EXTERNAL INTERRUPT MASK |
| 600 | (258) | DBL WORD | 8 | (0) | - ALIGN PSAMCHEX TO DOUBLE WORD |
| 600 | (258) | BITSTRING | 8 | PSAMCHEX | - MCH EXIT PSW |
| 608 | (260) | SIGNED | 4 | PSATCLIN | - STOSM PSASLSA,X'00' INSTRUCTION USED BY IEAVETCL and IEAVSCHA. OWNERSHIP: SUPERVISOR CONTROL. SERIALIZATION: DISABLEMENT. |
| 612 | (264) | SIGNED | 4 | PSAINTIN | - STOSM PSASLSA,X'00' INSTRUCTION USED BY IEAVEINT. OWNERSHIP: SUPERVISOR CONTROL. SERIALIZATION: DISABLEMENT. |
| 616 | (268) | SIGNED | 4 | PSAIPCIN | - STOSM PSASLSA,X'00' INSTRUCTION USED BY IPC ROUTINES. OWNERSHIP: SUPERVISOR CONTROL. SERIALIZATION: DISABLEMENT. |
| 616 | (268) | X'269' | 0 | PSAIPCSM | "PSAIPCIN+1,1,C'X'" - LABEL FOR SYSTEM MASK USED IN ABOVE INSTRUCTION. OWNERSHIP: SUPERVISOR CONTROL. |
| 620 | (26C) | SIGNED | 4 | PSAEMS2S | - STOSM PSASLSA,X'00' INSTRUCTION USED BY IEAVEMS0. OWNERSHIP: SUPERVISOR CONTROL. SERIALIZATION: DISABLEMENT. |
| 620 | (26C) | X'26D' | 0 | PSAEMS2M | "PSAEMS2S+1,1,C'X'" - LABEL OF SYSTEM MASK USED IN ABOVE INSTRUCTION. OWNERSHIP: SUPERVISOR CONTROL. |
| 624 | (270) | SIGNED | 4 | PSASTOSM | - STOSM PSASLSA,X'00' INSTRUCTION. IN ORDER TO USE THIS FIELD, MOVE THE SYSTEM MASK TO PSASTSSM AND IMMEDIATELY ISSUE EX 0,PSASTOSM. THE SYSTEM MASK FIELD (PSASTSSM) IS NOT PRESERVED ACROSS CALLS AND SHOULD NOT BE USED TO SAVE THE SYSTEM MASK. OWNERSHIP: NA. SERIALIZATION: DISABLEMENT. |
| 624 | (270) | X'271' | 0 | PSASTSSM | "PSASTOSM+1,1,C'X'" - LABEL FOR SYSTEM MASK USED IN ABOVE INSTRUCTION. OWNERSHIP: NA. |
| 628 | (274) | SIGNED | 4 | PSAHLHIS | - SAVE AREA FOR PSAHLHI MDC050 |
| 632 | (278) | BITSTRING | 1 | PSARECUR | - RESTART FLIH RECURSION INDICATOR. IF X'00', FLIH NOT IN CONTROL. IF X'FF', FLIH IN CONTROL, ENTRY IS RECURSIVE. MDC093 |
| 633 | (279) | BITSTRING | 1 | PSARSSM | - STNSM AREA FOR IEAVERES |
| 634 | (27A) | BITSTRING | 1 | PSASNSM2 | - STNSM AREA FOR IEAVTRT1 (MDC470) |
| 635 | (27B) | BITSTRING | 1 | PSARTM1S | - BITS 0-7 OF THE CURRENT PSW ARE STORED HERE WHENEVER PSARTM1R IS EXECUTED IN RTM. (MDC613) |
| 636 | (27C) | ADDRESS | 4 | PSALWTSa | - REAL ADDRESS OF SAVE AREA USED WHEN A RESTARTABLE WAIT STATE IS LOADED OWNERSHIP: LDWT |
| 640 | (280) | CHARACTER | 116 | PSACLHT (0) | - CPU LOCKS TABLE (MDC314) |
| 640 | (280) | CHARACTER | 80 | PSACLHT1 (0) | - SPIN LOCKS TABLE |
| 640 | (280) | ADDRESS | 4 | PSADISPL | "V(DISLOCK)" - GLOBAL DISPATCHER LOCK (MDC315) |
| 644 | (284) | ADDRESS | 4 | PSAASML | - AUXILIARY STORAGE MANAGEMENT (ASM) LOCK MDC002 |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|--------------|---|
| Dec | Hex | | | | |
| 648 | (288) | ADDRESS | 4 | PSASALCL | "V(SALCLOCK)" - SPACE ALLOCATION LOCK (MDC316) |
| 652 | (28C) | ADDRESS | 4 | PSAIOSSL | - IOS SYNCHRONIZATION LOCK MDC010 |
| 656 | (290) | ADDRESS | 4 | PSARSMDL | - ADDRESS OF THE RSM DATA SPACE LOCK |
| 660 | (294) | ADDRESS | 4 | PSAIOSUL | - IOS UNIT CONTROL BLOCK LOCK MDC005 |
| 664 | (298) | ADDRESS | 4 | PSARVLK1 | - RESERVED FOR LOCK EXPANSION |
| 668 | (29C) | ADDRESS | 4 | PSARV29C | - RESERVED FOR LOCK EXPANSION |
| 672 | (2A0) | ADDRESS | 4 | PSARV2A0 | - RESERVED FOR LOCK EXPANSION |
| 676 | (2A4) | ADDRESS | 4 | PSATPACL | - TCAM'S TPACBDEB LOCK MDC009 |
| 680 | (2A8) | ADDRESS | 4 | PSAOPTL | "V(OPTLOCK)" - OPTIMIZER LOCK (MDC317) |
| 684 | (2AC) | ADDRESS | 4 | PSARSMGL | - RSM GLOBAL LOCK |
| 688 | (2B0) | ADDRESS | 4 | PSAVFIXL | "V(VFIXLOCK)" VSM FIXED SUBPOOLS LOCK |
| 692 | (2B4) | ADDRESS | 4 | PSAASMGL | - ASM GLOBAL LOCK |
| 696 | (2B8) | ADDRESS | 4 | PSARMSL | - RSM STEAL LOCK |
| 700 | (2BC) | ADDRESS | 4 | PSARSMXL | - RSM CROSS MEMORY LOCK |
| 704 | (2C0) | ADDRESS | 4 | PSARSMAL | - RSM ADDRESS SPACE LOCK |
| 708 | (2C4) | ADDRESS | 4 | PSAVPAGL | "V(VPAGLOCK)" VSM PAGEABLE SUBPOOLS LOCK |
| 712 | (2C8) | ADDRESS | 4 | PSARSMCL | RSM COMMON LOCK |
| 712 | (2C8) | X'13' | 0 | PSALKS1 | "19" COUNT OF LOCKS IN CLHT1 |
| 716 | (2CC) | ADDRESS | 4 | PSARVLK2 | RESERVED FOR LOCK EXPANSION |
| 720 | (2D0) | CHARACTER | 16 | PSACLHT2 (0) | SHARED EXCLUSIVE LOCKS TABLE |
| 720 | (2D0) | ADDRESS | 4 | PSARSMML | "V(RSMLOCK)" RSM GLOBAL FUNCTION/RECOVERY LOCK |
| | | 1... | | PSARSMEX | "X'80" - BIT 0 OF PSARSMML. IF ON, THE RSM LOCK IS HELD EXCLUSIVE. |
| 724 | (2D4) | ADDRESS | 4 | PSATRCCL | "V(TRCELOCK)" TRACE BUFFER MANAGEMENT LOCK |
| | | 1... | | PSATRCCL | "X'80" - BIT 0 OF PSATRCCL. IF ON THE TRACE LOCK IS HELD EXCLUSIVE. |
| 728 | (2D8) | ADDRESS | 4 | PSAIOSSL | "V(IOSLOCK)" - IOS LOCK |
| | | 1... | | PSAIOSEX | "X'80" - BIT 0 OF PSAIOSSL. IF ON THE IOS LOCK IS HELD EXCLUSIVE. |
| 728 | (2D8) | X'3' | 0 | PSALKS2 | "3" COUNT OF LOCKS IN CLHT2 |
| 732 | (2DC) | ADDRESS | 4 | PSARVLK4 | - RESERVED FOR LOCK EXPANSION |
| 736 | (2E0) | CHARACTER | 8 | PSACLHT3 (0) | SPECIAL LOCKS TABLE |
| 736 | (2E0) | ADDRESS | 4 | PSACPUL | CPU TABLE LOCKS |
| 736 | (2E0) | X'1' | 0 | PSALKS3 | "1" COUNT OF LOCKS IN CLHT3 |
| 740 | (2E4) | ADDRESS | 4 | PSARVLK5 | - RESERVED FOR LOCK EXPANSION |
| 744 | (2E8) | CHARACTER | 12 | PSACLHT4 (0) | SUSPEND LOCKS TABLE |
| 744 | (2E8) | ADDRESS | 4 | PSACMSL | - CROSS MEMORY SERVICES LOCK (MDC463) |
| 748 | (2EC) | ADDRESS | 4 | PSALOCAL | - LOCAL LOCK |
| 748 | (2EC) | X'2' | 0 | PSALKS4 | "2" COUNT OF LOCKS IN CLHT4 |
| 752 | (2F0) | ADDRESS | 4 | PSARVLK6 | - RESERVED FOR LOCK EXPANSION |
| 756 | (2F4) | ADDRESS | 4 | PSALCPUA | - LOGICAL CPU ADDRESS FOR LOCK INSTRUCTION. THIS OFFSET FIXED BY ARCHITECTURE. (MDC421) |
| 760 | (2F8) | SIGNED | 4 | PSAHLHI (0) | - HIGHEST LOCK HELD INDICATOR. THIS OFFSET FIXED BY ARCHITECTURE. (MDC464) |
| 760 | (2F8) | SIGNED | 4 | PSACLHS (0) | - CPU LOCKS HELD STRING MDC122 |
| 760 | (2F8) | BITSTRING | 1 | PSACLHS1 | - FIRST BYTE OF PSACLHS. (MDC384) |
| | | 1... | | PSACPULI | "X'80" - CPU LOCK INDICATOR |
| | | ...1 | | PSASUM | "X'10" - SUMMARY BIT. IF ON, AT LEAST ONE LOCK IN PSACLHSE IS HELD BY THIS PROCESSOR. |
| | | 1... | | PSARSMML | "X'08" - RSM LOCK INDICATOR |
| | |1.. | | PSATRCCL | "X'04" - TRACE LOCK INDICATOR |
| | |1. | | PSAIOSSI | "X'02" - IOS LOCK INDICATOR |
| 761 | (2F9) | BITSTRING | 1 | PSACLHS2 | - SECOND BYTE OF PSACLHS. (MDC385) |
| | | ...1 | | PSARSMML | "X'10" - RSM COMMON LOCK INDICATOR |
| | | 1... | | PSARSMGL | "X'08" - RSM GLOBAL LOCK INDICATOR |
| | |1.. | | PSAVFIXI | "X'04" - VSM FIX LOCK INDICATOR |
| | |1. | | PSAASMGL | "X'02" - ASM GLOBAL LOCK INDICATOR |
| | |1 | | PSARSMML | "X'01" - RSM STEAL LOCK INDICATOR |
| 762 | (2FA) | BITSTRING | 1 | PSACLHS3 | - THIRD BYTE OF PSACLHS (MDC386) |
| | | 1... | | PSARSMML | "X'80" - RSM CROSS MEMORY LOCK INDICATOR |
| | | .1.. | | PSARSMML | "X'40" - RSM ADDRESS SPACE LOCK INDICATOR |
| | | .1. | | PSAVPAGI | "X'20" - VSM PAGE LOCK INDICATOR |
| | | ...1 | | PSADSPLI | "X'10" - DISPATCHER LOCK INDICATOR (MDC387) |
| | | 1... | | PSAASMLI | "X'08" - ASM LOCK INDICATOR (MDC388) |

PSA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|--------------|--|
| Dec | Hex | | | | |
| | |1.. | | PSASALLI | "X'04'" - SPACE ALLOCATION LOCK INDICATOR (MDC389) |
| | |1. | | PSAIOSLI | "X'02'" - IOS SYNCHRONIZATION LOCK INDICATOR (MDC390) |
| 763 | (2FB) |1 | 1 | PSARSMDI | "X'01'" - RSM DATA SPACE LOCK INDICATOR |
| | | 1... | | PSACLHS4 | - FOURTH BYTE OF PSACLHS (MDC392) |
| | | 1... | | PSAIOULI | "X'80'" - IOS UCB LOCK INDICATOR (MDC393) |
| | |1.. | | PSATPALI | "X'08'" - TPACBDEB LOCK INDICATOR (MDC397) |
| | |1.. | | PSASRMLI | "X'04'" - SYSTEM RESOURCE MANAGER (SRM) LOCK INDICATOR (MDC398) |
| | |1. | | PSACMSLI | "X'02'" - CROSS MEMORY SERVICES LOCK INDICATOR (CMS, CMSSMF, CMSEQDQ, CMSLATCH) (MDC399) |
| 764 | (2FC) |1 | 4 | PSALCLLI | "X'01'" - LOCAL LOCK INDICATOR (MDC400) |
| | | ADDRESS | | PSALITA | "V(IEAVELT1)" - ADDRESS OF LOCK INTERFACE TABLE. THIS OFFSET FIXED BY ARCHITECTURE. (MDC465) |
| 768 | (300) | BITSTRING | 8 | PSASTOR8 | - 8-BYTE value for master's STO |
| 776 | (308) | SIGNED | 4 | PSACR0 | - SAVE AREA FOR CONTROL REGISTER 0 |
| 780 | (30C) | BITSTRING | 1 | PSAMCHFL | - MCH RECURSION FLAGS |
| 781 | (30D) | BITSTRING | 1 | PSASYMSK | - THIS FIELD WILL BE USED IN CONJUNCTION WITH THE STNSM INSTRUCTION TO PLACE IOS CHANNEL SCHEDULER INTO A DISABLED STATE AND SIMULTANEOUSLY SAVE THE SYSTEM MASK OF THE CALLER MDC022 |
| 782 | (30E) | BITSTRING | 1 | PSAACTCD | - ACTION CODE SUPPLIED BY OPERATOR AFTER SYSTEM HAS LOADED RESTARTABLE WAIT STATE AND BEFORE THE RESTART KEY IS DEPRESSED. VALUE DEPENDS ON RESTARTABLE WAIT STATE CODE. UNPREDICTABLE DURING NORMAL SYSTEM OPERATION. OWNERSHIP: LDWT |
| 783 | (30F) | BITSTRING | 1 | PSAMCHIC | - MCH INITIALIZATION COMPLETE FLAGS MDC098 |
| 784 | (310) | ADDRESS | 4 | PSAWKRAP | - REAL ADDRESS OF VARY CPU PARAMETER LIST MDC106 |
| 788 | (314) | ADDRESS | 4 | PSAWKVAP | - VIRTUAL ADDRESS OF VARY CPU PARAMETER LIST MDC107 |
| 792 | (318) | SIGNED | 2 | PSAVSTAP | - WORK AREA FOR VARY CPU MDC108 |
| 794 | (31A) | SIGNED | 2 | PSACPUA | - PHYSICAL CPU ADDRESS (STATIC) (MDC131) YM3489 |
| 796 | (31C) | SIGNED | 4 | PSASTOR | - MASTER MEMORY'S SEGMENT TABLE ORIGIN REGISTER (STOR) VALUE |
| 800 | (320) | BITSTRING | 90 | PSAIDAWK | - WORK SAVE AREA FOR INTERNAL DEBUG TOOL. |
| 890 | (37A) | SIGNED | 2 | PSARET | - BSM 0,14 BRANCH RETURN TO CALLER USED BY ROUTINES INVOKED BY IOS |
| 892 | (37C) | SIGNED | 2 | PSARETCD | - BSM 0,14 BRANCH RETURN TO CALLER WITH RETURN CODE IN REGISTER 15, USED BY ROUTINES INVOKED BY IOS |
| 894 | (37E) | BITSTRING | 2 | | - RESERVED |
| 896 | (380) | CHARACTER | 64 | PSARSVT (0) | - RECOVERY STACK VECTOR TABLE MDC064 |
| 896 | (380) | CHARACTER | 64 | PSARSVTE (0) | - RECOVERY STACK VECTOR TABLE MDC065 |
| 896 | (380) | ADDRESS | 4 | PSACSTK | - ADDRESS OF CURRENTLY USED FUNCTIONAL RECOVERY ROUTINE (FRR) STACK MDC061 |
| 900 | (384) | ADDRESS | 4 | PSANSTK | - ADDRESS OF NORMAL FRR STACK MDC062 |
| 904 | (388) | ADDRESS | 4 | PSASSTK | - ADDRESS OF SVC-I/O-DISPATCHER FRR STACK MDC063 |
| 908 | (38C) | ADDRESS | 4 | PSASSAV | - ADDRESS OF INTERRUPTED STACK SAVED BY SVC, I/O, DISPATCHER MDC066 |
| 912 | (390) | ADDRESS | 4 | PSAMSTK | - ADDRESS OF MCH FRR STACK MDC067 |
| 916 | (394) | ADDRESS | 4 | PSAMSAV | - ADDRESS OF INTERRUPTED STACK SAVED BY MCH MDC068 |
| 920 | (398) | ADDRESS | 4 | PSAPSTK | - ADDRESS OF PROGRAM CHECK FLIH FRR STACK MDC069 |
| 924 | (39C) | ADDRESS | 4 | PSAPSAV | - ADDRESS OF INTERRUPTED STACK SAVED BY PROGRAM CHECK FLIH MDC070 |
| 928 | (3A0) | ADDRESS | 4 | PSAESTK1 | - ADDRESS OF EXTERNAL FLIH FRR STACK FOR NON-RECURSIVE ENTRIES MDC071 |
| 932 | (3A4) | ADDRESS | 4 | PSAESAV1 | - ADDRESS OF INTERRUPTED STACK SAVED BY EXTERNAL FLIH FOR NON-RECURSIVE ENTRIES MDC072 |
| 936 | (3A8) | ADDRESS | 4 | PSAESTK2 | - ADDRESS OF EXTERNAL FLIH FRR STACK FOR FIRST LEVEL RECURSIONS MDC073 |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|------------|--|
| Dec | Hex | | | | |
| 940 | (3AC) | ADDRESS | 4 | PSAESAV2 | - ADDRESS OF INTERRUPTED STACK SAVE BY EXTERNAL FLIH FOR FIRST LEVEL RECURSIONS MDC074 |
| 944 | (3B0) | ADDRESS | 4 | PSAESTK3 | - ADDRESS OF EXTERNAL FLIH FRR STACK FOR SECOND LEVEL RECURSIONS AND ACR MDC075 |
| 948 | (3B4) | ADDRESS | 4 | PSAESAV3 | - ADDRESS OF INTERRUPTED STACK SAVED BY EXTERNAL FLIH FOR SECOND LEVEL RECURSIONS MDC076 |
| 952 | (3B8) | ADDRESS | 4 | PSARSTK | - ADDRESS OF RESTART FLIH FRR STACK MDC077 |
| 956 | (3BC) | ADDRESS | 4 | PSARSAV | - ADDRESS OF INTERRUPTED STACK SAVED BY RESTART FLIH MDC078 |
| 960 | (3C0) | DBL WORD | 8 | (0) | - ALIGN PSALWPSW TO DOUBLE WORD |
| 960 | (3C0) | BITSTRING | 8 | PSALWPSW | - PSW OF WORK INTERRUPTED WHEN A RESTARTABLE WAIT STATE IS LOADED OWNERSHIP: LDWT |
| 968 | (3C8) | DBL WORD | 8 | (0) | - ALIGN PSARSPSW TO DOUBLE WORD MDC097 |
| 968 | (3C8) | BITSTRING | 8 | PSARSPSW | - RESUME PSW FIELD FOR RESTART INTERRUPT HANDLER MDC097 |
| 976 | (3D0) | ADDRESS | 4 | PSATSTK | - ADDRESS OF RTM RECOVERY STACK. SERIALIZATION: NONE - THE FIELD IS INITIALIZED AT IPL/VARY CPU ONLINE TIME ONLY. OWNER: RTM. |
| 980 | (3D4) | ADDRESS | 4 | PSATSAV | - ADDRESS OF ERROR STACK SAVED BY RTM WHEN SWITCHING TO RTM RECOVERY STACK. OWNERSHIP: RTM |
| 984 | (3D8) | ADDRESS | 4 | PSAASTK | - ADDRESS OF ACR FRR STACK. OWNERSHIP: ACR |
| 988 | (3DC) | ADDRESS | 4 | PSAASAV | - ADDRESS OF INTERRUPT STACK SAVED BY ACR. OWNERSHIP: ACR |
| 992 | (3E0) | DBL WORD | 8 | (0) | - ALIGN PSARTPSW TO DOUBLE WORD |
| 992 | (3E0) | BITSTRING | 8 | PSARTPSW | - RESUME PSW FOR RTM SETRP RETRY OPTION OWNERSHIP: RTM |
| 1000 | (3E8) | BITSTRING | 8 | PSARV3E8 | - RESERVED |
| 1008 | (3F0) | SIGNED | 4 | (0) | - ALIGN PSASFACC TO FULL WORD MDC123 |
| 1008 | (3F0) | BITSTRING | 4 | PSASFACC | - SETFRR ABEND COMPLETION CODE USED WHEN A SETFRR ADD IS ISSUED AGAINST A FULL FRR STACK MDC123 |
| 1012 | (3F4) | SIGNED | 4 | PSALSFCC | - L 1,PSASFACC INSTRUCTION TO LOAD REGISTER 1 WITH THE SETFRR ABEND COMPLETION CODE IN PSASFACC |
| 1016 | (3F8) | SIGNED | 2 | PSASVC13 | - AN SVC 13 INSTRUCTION |
| 1018 | (3FA) | BITSTRING | 1 | | - RESERVED |
| 1019 | (3FB) | BITSTRING | 1 | PSAINT | - FLAGS FOR CPU TIMER (MDC466) |
| | | 1... | | PSANUIN | "X'80" - CPU TIMER CANNOT BE USED (MDC467) |
| 1020 | (3FC) | SIGNED | 4 | PSARTM1R | - STOSM PSARTM1S,X'00' INSTRUCTION EXECUTED BEFORE RTM GOES TO THE RETRY ROUTINE FOR THE FRRS. OWNERSHIP: RTM. SERIALIZATION: DISABLEMENT. |
| 1020 | (3FC) | X'3FD' | 0 | PSARTM1M | "PSARTM1R+1,1,C'X'" - LABEL FOR SYSTEM MASK USED IN ABOVE INSTRUCTION. OWNERSHIP: RTM. |
| 1024 | (400) | DBL WORD | 8 | (0) | - ALIGN PSAPCPSW TO DOUBLE WORD YM0943 |
| 1024 | (400) | BITSTRING | 8 | PSAPCPSW | - TEMPORARY OLD PSW STORAGE FOR PROGRAM FLIH (MDC129) YM0943 |
| 1032 | (408) | ADDRESS | 4 | PSAATCVT | - ADDRESS OF VTAM ATCVT. INITIALIZED BY VTAM. (MDC300) |
| 1036 | (40C) | ADDRESS | 4 | PSAWTCOD | - WAIT STATE CODE LOADED OWNERSHIP: LDWT |
| 1040 | (410) | ADDRESS | 4 | PSASCWA | - ADDRESS OF SUPERVISOR CONTROL CPU RELATED WORK SAVE AREA |
| 1044 | (414) | ADDRESS | 4 | PSARMSA | - ADDRESS OF RSM CPU RELATED WORK SAVE AREA |
| 1048 | (418) | DBL WORD | 8 | (0) | - ALIGN PSASCPSW TO DOUBLE WORD (MDC325) |
| 1048 | (418) | BITSTRING | 4 | PSASCPSW | - MODEL PSW OWNERSHIP: SUPERVISOR CONTROL. SERIALIZATION: DISABLED. |
| 1052 | (41C) | ADDRESS | 4 | | - MODEL PSW SECOND HALF (MDC325) |
| 1056 | (420) | DBL WORD | 8 | (0) | - ALIGN PSASMPSW TO DOUBLE WORD (MDC326) |
| 1056 | (420) | BITSTRING | 4 | PSASMPSW | - SRB DISPATCH PSW (MDC326) |
| 1060 | (424) | ADDRESS | 4 | | - DISPATCH PSW SECOND HALF (MDC326) |
| 1064 | (428) | BITSTRING | 64 | PSARV428 | - RESERVED |
| 1128 | (468) | DBL WORD | 8 | (0) | - ALIGN PSAPSWSV TO DOUBLE WORD (MDC319) |
| 1128 | (468) | BITSTRING | 8 | PSAPSWSV | - PSW SAVE AREA FOR DISPATCHER AND ACR (MDC319) |

PSA Map

| Offsets | | | | | |
|---------|-------|--------------|-----|--------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 1136 | (470) | DBL WORD | 8 | (0) | - ALIGN PSACPUT TO DOUBLE WORD (MDC328) |
| 1136 | (470) | BITSTRING | 8 | PSACPUT | - SUPERVISOR CPU TIMER SAVE AREA (MDC328) |
| 1144 | (478) | SIGNED | 4 | PSAPCFUN (0) | - PROGRAM FLIH RECURSION FLAGS (MDC613) |
| 1144 | (478) | BITSTRING | 1 | PSAPCFB1 | - FUNCTION VALUE (MDC484) |
| | |1 | | PSAPCMC | "X'01" - MC INTERRUPT (MDC605) |
| | |1. | | PSAPCPF | "X'02" - PAGE FAULT |
| | |1.1 | | PSAPCPS | "X'03" - PER/SPACE SWITCH INTERRUPT |
| | |1.. | | PSAPCAD | "X'04" - ADDRESSING EXCEPTION (MDC488) |
| | |1.1 | | PSAPCTR | "X'05" - TRANSLATION EXCEPTION (MDC489) |
| | |11. | | PSAPCPC | "X'06" - PROGRAM CHECK (MDC490) |
| | |111 | | PSAPCTRC | "X'07" - TRACE INTERRUPT |
| | |1... | | PSAPCAF | "X'08" - NEW VALUE FOR PROGRAM INTERRUPT FLAG. ASYMMETRIC FEATURE OPERATION EXCEPTION. |
| | |1..1 | | PSAPCLS | "X'09" - LINKAGE STACK INTERRUPT FUNCTION VALUE FOR PROGRAM FLIH. |
| | |1.1. | | PSAPCART | "X'0A" - ACCESS REGISTER TRANSLATION INTERRUPT VALUE FOR PROGRAM FLIH. |
| | |1.11 | | PSAPCDPF | "X'0B" - DISABLED PAGE/SEGMENT FAULT |
| | |11.. | | PSAPCDAR | "X'0C" - DISABLED ART PIC X'2B' FUNCTION VALUE FOR PROGRAM FLIH. |
| | |11.1 | | PSAPCPRT | "X'0D" - Protection exception function value |
| | |11.1 | | PSAPCMAX | "X'0D" - MAXIMUM VALID FUNCTION VALUE |
| 1145 | (479) | BITSTRING | 1 | PSAPCFB2 | - FUNCTION FLAGS (MDC491) |
| | | 1... | | PSAPCTRR | "X'80" - TRACE INTERRUPT RECURSION HANDLER FLAG. |
| | | ..1. | | PSAPCMT | "X'40" - TRACE RECURSION FLAG (MDC493) |
| 1146 | (47A) | BITSTRING | 1 | PSAPCFB3 | - RECURSION FLAGS (MDC494) |
| | | 1... | | PSAPCP1 | "X'80" - FIRST LEVEL PROGRAM CHECK (MDC495) |
| | | ..1. | | PSAPCP2 | "X'40" - SECOND LEVEL PROGRAM CHECK (MDC496) |
| | | ..1. | | PSAPCDE | "X'20" - DAT ERROR CONDITION (MDC497) |
| | | ...1 | | PSAPCLV | "X'10" - 0=REGISTERS IN LCCA, 1=REGISTERS NOT IN LCCA. (MDC498) |
| | |1... | | PSAPCP3 | "X'08" - THIRD LEVEL PROGRAM CHECK (MDC604) |
| | |1.. | | PSAPCP4 | "X'04" - FOURTH LEVEL PROGRAM CHECK (MDC604) |
| | |1. | | PSAPCPFR | "X'02" - RECURSIVE PAGE FAULT INDICATOR |
| | |1 | | PSAPCAVR | "X'01" - RECURSIVE ASTE VALIDITY INDICATOR |
| 1147 | (47B) | BITSTRING | 1 | PSAPCFB4 | - RECURSION FLAGS |
| | | 1... | | PSAPCDNV | "X'80" - DUCT validity indicator |
| | | ..1. | | PSAPCLSR | "X'40" - IEAVLSIH has invoked IARPTEPR and recursion into RSM is not permitted. |
| 1148 | (47C) | SIGNED | 2 | PSAPCPS2 | - PASID AT TIME OF SECOND LEVEL INTERRUPT (MDC604) |
| 1150 | (47E) | BITSTRING | 2 | PSARV47E | - RESERVED |
| 1152 | (480) | BITSTRING | 24 | PSAPCWKA | - Work area for PC FLIH. Must be qword-aligned |
| 1176 | (498) | SIGNED | 2 | PSAPCPS3 | - PASID AT TIME OF THIRD LEVEL INTERRUPT (MDC604) |
| 1178 | (49A) | SIGNED | 2 | PSAPCPS4 | - PASID AT TIME OF FOURTH LEVEL INTERRUPT |
| 1180 | (49C) | SIGNED | 4 | PSAMODEW (0) | - Word label to address PSAMODE. |
| 1180 | (49C) | BITSTRING | 1 | | - RESERVED - FIRST BYTE OF PSAMODEW |
| 1181 | (49D) | BITSTRING | 1 | PSAMFLGS | - SECOND BYTE OF PSAMODEW (MDC604) |
| | | 1... | | PSANSS | "X'80" - ENABLED UNLOCKED TASK WITH FRR (MDC605) |
| | | ..1. | | PSAPRSRB | "X'40" - Preemptable-class SRB |
| 1182 | (49E) | BITSTRING | 1 | PSAMODEH | - SECOND HALFWORD OF PSAMODEW. FIRST BYTE MUST BE ZERO FOR I/O AND EXTERNAL FLIHS. (MDC613) |
| 1183 | (49F) | BITSTRING | 1 | PSAMODE | - SYSTEM MODE INDICATOR AND DISPLACEMENT INTO TABLES FOR EXTERNAL AND I/O FLIHS |
|  |  | .... .... |  | PSATASKM | "X'00" - TASK MODE VALUE (MDC338) |
| | |1.. | | PSASRBM | "X'04" - SRB MODE VALUE (MDC339) |
| | |1... | | PSAWAITM | "X'08" - WAIT MODE VALUE (MDC340) |
| | | ...1 | | PSADISPM | "X'10" - DISPATCHER MODE VALUE (MDC342) |
| | | ..1. | | PSAPSRBM | "X'20" - PSEUDO SRB MODE FLAG BIT. THIS BIT MAY BE ON WITH ANY OF ABOVE MODE VALUES. (MDC343) |
| 1184 | (4A0) | BITSTRING | 3 | | - RESERVED |
| 1187 | (4A3) | BITSTRING | 1 | PSASTNSM | - STNSM TARGET USED BY EXIT PROLOGUE (MDC346) |
| 1188 | (4A4) | SIGNED | 4 | PSALKJW | - LOCAL LOCK RELEASE SRB JOURNAL WORD (MDC612) |
| 1192 | (4A8) | DBL WORD | 8 | PSADZERO (0) | - DOUBLEWORD OF ZERO (MDC612) |
| 1192 | (4A8) | SIGNED | 4 | PSAFZERO | - FULLWORD OF ZERO (MDC612) |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|--------------|---|
| Dec | Hex | | | | |
| 1196 | (4AC) | SIGNED | 4 | | - FULLWORD OF ZERO (MDC612) |
| 1200 | (4B0) | SIGNED | 4 | PSALKJW2 | - CMS LOCK RELEASE JOURNAL WORD. (MDC613) |
| 1204 | (4B4) | ADDRESS | 4 | PSALKPT | "V(IEALKPT)" - SETLOCK TEST,TYPE=HIER PARAMETER LIST TABLE. OWNERSHIP: LOCK MANAGER. SERIALIZATION: NONE. |
| 1208 | (4B8) | BITSTRING | 4 | PSARV4B8 | - RESERVED. |
| 1212 | (4BC) | ADDRESS | 4 | PSALIT2 | "V(IEAVELT2)" - POINTER TO THE EXTENDED LOCK INTERFACE TABLE. |
| 1216 | (4C0) | ADDRESS | 4 | PSAECLTP | "V(IEACLTE)" - POINTER TO THE EXTENDED CURRENT LOCKS HELD TABLE. |
| 1220 | (4C4) | SIGNED | 4 | PSACLHSE (0) | - CURRENT LOCKS HELD STRING EXTENSION |
| 1220 | (4C4) | BITSTRING | 1 | PSALHEB0 | - BYTE 0 OF THE CURRENT LOCK HELD STRING EXTENSION. |
| | | 1... | | PSABLSDI | "X'80" - BMFLSD LOCK INDICATOR. |
| | | .1.. | | PSAXDSI | "X'40" - XCFDS LOCK INDICATOR. |
| | | ..1. | | PSAXRESI | "X'20" - XCFRES LOCK INDICATOR. |
| | | ...1 | | PSAXQI | "X'10" - XCFQ LOCK INDICATOR. |
| | | 1... | | PSAESETI | "X'08" - ETRSET LOCK INDICATOR. |
| | |1.. | | PSAIXSCI | "X'04" - IXLSCH LOCK INDICATOR. |
| | |1. | | PSAIXSHI | "X'02" - IXLSHR LOCK INDICATOR. |
| | |1 | | PSAIXDSI | "X'01" - IXLDS LOCK INDICATOR. |
| 1221 | (4C5) | BITSTRING | 1 | PSALHEB1 | - BYTE 1 OF THE CURRENT LOCK HELD STRING EXTENSION. |
| | | 1... | | PSAIXLLI | "X'80" - IXLSHELL LOCK INDICATOR. |
| | | .1.. | | PSAULUTI | "X'40" - IOSULUT LOCK INDICATOR. |
| | | ..1. | | PSAIXLRI | "X'20" - IXLREQST LOCK INDICATOR. |
| | | ...1 | | PSAWLMRI | "X'10" - WLMRES LOCK INDICATOR |
| | | 1... | | PSAWLMQI | "X'08" - WLMQ LOCK INDICATOR. |
| | |1.. | | PSACNTXI | "X'04" - CONTEXT LOCK INDICATOR |
| | |1. | | PSAREGSI | "X'02" - REGSRV LOCK INDICATOR. |
| | |1 | | PSASSDLI | "X'01" - SSD LOCK INDICATOR. |
| 1222 | (4C6) | BITSTRING | 1 | PSALHEB2 | - BYTE 2 OF THE CURRENT LOCK HELD STRING EXTENSION. |
| 1223 | (4C7) | BITSTRING | 1 | PSALHEB3 | - BYTE 3 OF THE CURRENT LOCK HELD STRING EXTENSION. |
| 1224 | (4C8) | BITSTRING | 8 | PSARV4C8 | - RESERVED FOR FUTURE LOCK EXPANSION. |
| 1232 | (4D0) | BITSTRING | 184 | PSARV4D0 | - RESERVED. |
| 1416 | (588) | BITSTRING | 1 | PSAHWFB | - HARDWARE FLAG BYTE. |
| 1417 | (589) | BITSTRING | 1 | PSACR0CB | - CR0 CONTROL BYTE USED BY PROTPSA MACRO (MDC425) |
| | | ...1 | | PSAENABL | "X'10" - TO ENABLE PSA PROTECTION (MDC428) |
|  |  | .... .... |  | PSADSABL | "X'00" - TO DISABLE PSA PROTECTION (MDC429) |
| 1418 | (58A) | BITSTRING | 2 | | - RESERVED |
| 1420 | (58C) | SIGNED | 4 | PSACR0SV | - CR0 SAVE AREA USED BY PROTPSA MACRO (MDC426) |
| | | ...1 | | PSACROEN | "X'10" - IF 0, PSA PROTECT DISABLED. IF 1, PSA PROTECT ENABLED. BIT IS IN HIGH-ORDER BYTE OF PSACR0SV. (MDC432) |
| | |1.. | | PSACR0FP | "X'04" - IF 1, extended floating point is enabled. Bit is in PSACR0SV+1 |
| | |1. | | PSACR0VI | "X'02" - IF 1, vector instructions are enabled. Bit is in PSACR0SV+1 |
| 1424 | (590) | SIGNED | 4 | PSAPCCR0 | - PROGRAM CHECK FLIH CR0 SAVE AREA (MDC427) |
| 1428 | (594) | SIGNED | 4 | PSACR0 | - RESTART FLIH CR0 SAVE AREA (MDC434) |
| | | ...1 | | PSARPEN | "X'10" - IF 0, PSA PROTECT DISABLED. IF 1, PSA PROTECT ENABLED. BIT IS IN HIGH-ORDER BYTE OF PSACR0. (MDC435) |
| 1432 | (598) | DBL WORD | 8 | PSASTKE (0) | - CURRENT STACK CONTROL WORD FOR SRB'S AND TYPE 6 SVC'S. |
| 1432 | (598) | SIGNED | 2 | PSATKN | - CURRENT STACK TOKEN (MDC610) |
| 1434 | (59A) | SIGNED | 2 | PSAASD | - CURRENT STACK ADDRESS SPACE DESIGNATOR (MDC610) |
| 1436 | (59C) | SIGNED | 4 | PSASEL | - CURRENT STACK ELEMENTS ADDRESS (MDC610) |
| 1440 | (5A0) | DBL WORD | 8 | (0) | - ALIGN PSASKPSW TO A DOUBLEWORD (MDC604) |
| 1440 | (5A0) | BITSTRING | 4 | PSASKPSW | PCLINK STACK/UNSTACK MODEL PSW (MDC604) |

PSA Map

| Offsets | | | | | |
|---------|-------|------------------------|-----|----------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 1444 | (5A4) | ADDRESS | 4 | PSASKPS2 | - PCLINK PSW ADDRESS (MDC604) |
| 1448 | (5A8) | ADDRESS | 4 | PSACPCLS | - PCLINK WORKAREA - CURRENT STACK HEADER ADDRESS |
| 1452 | (5AC) | BITSTRING | 4 | PSARV5AC | - RESERVED. |
| 1456 | (5B0) | ADDRESS | 4 | PSASCFS | - ADDRESS OF THE SUPERVISOR CONTROL FLIH SAVEAREA. |
| 1460 | (5B4) | ADDRESS | 4 | PSAPAWA | - ADDRESS OF PC/AUTH WORK AREA. |
| 1464 | (5B8) | BITSTRING 1... | 1 | PSASCFB PSAIOPR | - SUPERVISOR CONTROL FLAG BYTE. "X'80" - INDICATES IF INTERRUPTED TASK SHOULD BE PREEMPTED. USED BY THE I/O FLIH. |
| | | .1... | | PSAIORTY | "X'40" - I/O FLIH RECOVERY FLAG. IF 1, CONTINUE RETRY PROCESSING INSTEAD OF ABENDING |
| 1465 | (5B9) | BITSTRING | 3 | | - RESERVED |
| 1468 | (5BC) | BITSTRING | 4 | PSACR0M1 | MASK OF CR0 WITH EXTERNAL MASK BITS OFF - USED BY WINDOW. |
| 1472 | (5C0) | BITSTRING | 4 | PSACR0M2 | MASK OF CR0 WITH ONLY EXTERNAL MASK BITS ON - USED BY WINDOW. |
| 1476 | (5C4) | BITSTRING | 148 | PSARV5C4 | - RESERVED |
| 1624 | (658) | DBL WORD | 8 | PSATIME | - CURRENT SRB'S ACCUMULATED CPU TIME |
| 1632 | (660) | SIGNED | 4 | PSASRSV | - ADDRESS OF CURRENT FRR STACK SAVED BY STOP/RESET. (MDC605) |
| 1636 | (664) | BITSTRING | 12 | PSAESC8 | - Save area for IEAVESC8 |
| 1648 | (670) | DBL WORD | 8 | PSADXMSI (0) | - DISPATCHER CONTROL REGISTER 3 AND 4 IMAGE |
| 1648 | (670) | SIGNED | 4 | PSADCR3I (0) | - DISPATCHER CONTROL REGISTER 3 IMAGE |
| 1648 | (670) | SIGNED | 2 | PSADPKMI | - PKM IMAGE |
| 1650 | (672) | SIGNED | 2 | PSADSASI | - SECONDARY ASID |
| 1652 | (674) | SIGNED | 4 | PSADCR4I (0) | - DISPATCHER CONTROL REGISTER 4 IMAGE |
| 1652 | (674) | SIGNED | 2 | PSADAXI | - AUTHORIZATION INDEX |
| 1654 | (676) | SIGNED | 2 | PSADPASI | - PRIMARY ASID |
| 1656 | (678) | BITSTRING | 64 | PSADSARS | - DISPATCHER ACCESS REGISTER SAVE AREA |
| 1720 | (6B8) | DBL WORD | 8 | PSADXMSV (0) | - DISPATCHER CONTROL REGISTER 3 AND 4 SAVE AREA (MDC610) |
| 1720 | (6B8) | SIGNED | 4 | PSADCR3 (0) | - DISPATCHER CONTROL REGISTER 3 SAVE AREA (MDC610) |
| 1720 | (6B8) | SIGNED | 2 | PSADPKM | - DISPATCHER PROGRAM KEY MASK SAVE AREA (MDC610) |
| 1722 | (6BA) | SIGNED | 2 | PSADSAS | - DISPATCHER SECONDARY ASID SAVE AREA (MDC610) |
| 1724 | (6BC) | SIGNED | 4 | PSADCR4 (0) | - DISPATCHER CONTROL REGISTER 4 SAVE AREA (MDC610) |
| 1724 | (6BC) | SIGNED | 2 | PSADAX | - DISPATCHER AUTHORIZATION INDEX SAVE AREA. (MDC613) |
| 1726 | (6BE) | SIGNED | 2 | PSADPAS | - DISPATCHER PRIMARY ASID SAVE AREA. (MDC610) |
| 1728 | (6C0) | DBL WORD | 8 | PSADTSV | - CPU TIMER VALUE AT LAST DISPATCH, SRBTIMER REQUEST, CPUTIMER EXPIRATION, OR STATUS SAVE OR RESTORE. |
| 1728 | (6C0) | BITSTRING | 1 | PSAFF6C0 (0) | INITIALIZE FIELD PSADTSV |
| 1736 | (6C8) | DBL WORD | 8 | PSAUSEND (0) | END FIRST SET OF ASSIGNED FIELDS SAVED BY ACR. |
| 1736 | (6C8) | BITSTRING | 232 | PSARV6C8 | - RESERVED |
| 1968 | (7B0) | DBL WORD | 8 | (0) | - ALIGN PSADATLK ON DOUBLE WORD |
| 1968 | (7B0) | BITSTRING | 1 | PSADATLK (48) | - AREA FOR DAT-OFF ASSIST LINKAGE CODE |
| 2016 | (7E0) | ADDRESS | 4 | PSADATOF | - REAL STORAGE ADDRESS OF THE DAT-OFF LINKAGE TABLE WHICH IS INITIALIZED BY NIP FOR DAT-ON/DAT-OFF LINKAGE |
| 2020 | (7E4) | SIGNED | 4 | PSADATLN | - LENGTH OF THE DAT-OFF INDEX TABLE (IEAVEDFT) |
| 2024 | (7E8) | BITSTRING | 4 | PSARV7E8 | - RESERVED FOR SYSTEM TRACE. |
| 2024 | (7E8) | BITSTRING | 1 | PSAFF7E8 (0) | INITIALIZE FIELD PSARV7E8 |
| 2028 | (7EC) | BITSTRING 1... | 1 | PSATRACE PSATROFF | - SYSTEM TRACE FLAGS. "X'80" - IF ON, SYSTEM TRACE SUSPENDED ON THIS PROCESSOR BECAUSE WAIT TASK DISPATCHED. |
| 2029 | (7ED) | BITSTRING | 3 | | - RESERVED FOR SYSTEM TRACE. |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|--|-------|------------|-----|--------------|--|
| Dec | Hex | | | | |
| 2032 | (7F0) | ADDRESS | 4 | PSATBVTR | - REAL ADDRESS OF SYSTEM TRACE BUFFER VECTOR TABLE (TBVT) REPRESENTING THE CURRENT SYSTEM TRACE BUFFER FOR THIS PROCESSOR. OWNERSHIP: SYSTEM TRACE. SERIALIZATION: DISABLEMENT FOR EXTERNAL INTERRUPTS ON THIS PROCESSOR OR THE TRACE SPIN LOCK. |
| 2036 | (7F4) | ADDRESS | 4 | PSATBVTV | - VIRTUAL ADDRESS CORRESPONDING TO PSATBVTR. |
| 2040 | (7F8) | ADDRESS | 4 | PSATRVTV | "V(IEAVETVT)" - ADDRESS OF SYSTEM TRACE VECTOR TABLE. |
| 2044 | (7FC) | ADDRESS | 4 | PSATOT | "V(IEAVETOT)" - ADDRESS OF SYSTEM TRACE OPERAND TABLE. |
| Comment | | | | | |
| FETCH PROTECTED KEY 0 AREA LOCATIONS 800 TO FFF HEX | | | | | |
| End of Comment | | | | | |
| 2048 | (800) | DBL WORD | 8 | PSAUS2ST (0) | START SECOND SET OF ASSIGNED FIELDS SAVED BY ACR. |
| 2048 | (800) | BITSTRING | 16 | PSACDSAV (0) | CALLDISP REGISTER SAVE AREA FOR REGISTERS 14 - 1 |
| 2048 | (800) | SIGNED | 4 | PSACDSAE | CALLDISP REGISTER 14 SAVE AREA |
| 2052 | (804) | SIGNED | 4 | PSACDSAF | CALLDISP REGISTER 15 SAVE AREA |
| 2056 | (808) | SIGNED | 4 | PSACDSA0 | CALLDISP REGISTER 0 SAVE AREA |
| 2060 | (80C) | SIGNED | 4 | PSACDSA1 | CALLDISP REGISTER 1 SAVE AREA |
| 2064 | (810) | SIGNED | 4 | PSAGSPSW | GLOBAL SCHEDULE SYSTEM MASK SAVE AREA. OWNERSHIP: SUPERVISOR CONTROL. SERIALIZATION: DISABLEMENT. |
| 2068 | (814) | SIGNED | 4 | PSAGSRGS | GLOBAL SCHEDULE REGISTER SAVE AREA. OWNERSHIP: SUPERVISOR CONTROL. SERIALIZATION: DISABLEMENT. |
| 2072 | (818) | BITSTRING | 4 | PSARV818 | - RESERVED |
| 2076 | (81C) | SIGNED | 4 | PSASV01R | IEAVTRG1 register 1 save area. |
| 2080 | (820) | SIGNED | 4 | PSASV14R | IEAVTRG1 register 14 save area. |
| 2084 | (824) | SIGNED | 4 | PSAEMS2R | - REGISTER SAVE AREA OWNERSHIP: MEMORY SWITCH. SERIALIZATION: DISABLED. |
| 2088 | (828) | BITSTRING | 64 | PSATRSV (0) | - TRACE REGISTER SAVE AREA. |
| 2088 | (828) | SIGNED | 4 | PSATRGR0 | - TRACE REGISTER 0 SAVE AREA. |
| 2092 | (82C) | SIGNED | 4 | PSATRGR1 | - TRACE REGISTER 1 SAVE AREA. |
| 2096 | (830) | SIGNED | 4 | PSATRGR2 | - TRACE REGISTER 2 SAVE AREA. |
| 2100 | (834) | SIGNED | 4 | PSATRGR3 | - TRACE REGISTER 3 SAVE AREA. |
| 2104 | (838) | SIGNED | 4 | PSATRGR4 | - TRACE REGISTER 4 SAVE AREA. |
| 2108 | (83C) | SIGNED | 4 | PSATRGR5 | - TRACE REGISTER 5 SAVE AREA. |
| 2112 | (840) | SIGNED | 4 | PSATRGR6 | - TRACE REGISTER 6 SAVE AREA. |
| 2116 | (844) | SIGNED | 4 | PSATRGR7 | - TRACE REGISTER 7 SAVE AREA. |
| 2120 | (848) | SIGNED | 4 | PSATRGR8 | - TRACE REGISTER 8 SAVE AREA. |
| 2124 | (84C) | SIGNED | 4 | PSATRGR9 | - TRACE REGISTER 9 SAVE AREA. |
| 2128 | (850) | SIGNED | 4 | PSATRGRA | - TRACE REGISTER 10 SAVE AREA. |
| 2132 | (854) | SIGNED | 4 | PSATRGRB | - TRACE REGISTER 11 SAVE AREA. |
| 2136 | (858) | SIGNED | 4 | PSATRGRC | - TRACE REGISTER 12 SAVE AREA. |
| 2140 | (85C) | SIGNED | 4 | PSATRGRD | - TRACE REGISTER 13 SAVE AREA. |
| 2144 | (860) | SIGNED | 4 | PSATRGRE | - TRACE REGISTER 14 SAVE AREA. |
| 2148 | (864) | SIGNED | 4 | PSATRGRF | - TRACE REGISTER 15 SAVE AREA. |
| 2152 | (868) | BITSTRING | 64 | PSARV868 | - RESERVED. |
| 2216 | (8A8) | DBL WORD | 8 | (0) | - ALIGN PSAGSAV TO DOUBLE WORD |
| 2216 | (8A8) | BITSTRING | 64 | PSAGSAV | - REGISTER SAVE AREA USED BY DISPATCHER AND SCHEDULE |
| 2216 | (8A8) | BITSTRING | 1 | PSAFF8A8 (0) | INITIALIZE FIELD PSAGSAV |
| 2280 | (8E8) | SIGNED | 4 | PSASCRG1 | - GLOBAL SCHEDULE REGISTER SAVE AREA |
| 2284 | (8EC) | SIGNED | 4 | PSASCRG2 | - GLOBAL SCHEDULE REGISTER SAVE AREA |
| 2288 | (8F0) | SIGNED | 4 | PSAGPREG (3) | - REGISTER SAVE AREA FOR SVC FLIH AND SCHEDULE |
| 2300 | (8FC) | SIGNED | 4 | PSARSREG | - RESTART FLIH REGISTER SAVE |
| 2304 | (900) | SIGNED | 4 | PSAPCGR8 | - PROGRAM FLIH REGISTER 8 SAVE AREA |
| 2308 | (904) | SIGNED | 4 | PSAPCGR9 | - PROGRAM FLIH REGISTER 9 SAVE AREA |
| 2312 | (908) | DBL WORD | 8 | PSAPCGAB (0) | PROGRAM FLIH REG 10-11 SAVE AREA |

PSA Map

| Offsets | | | | | |
|---------|-------|------------|-----|--------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 2312 | (908) | SIGNED | 4 | PSAPCGRA | - PROGRAM FLIH REGISTER 10 SAVE AREA |
| 2316 | (90C) | SIGNED | 4 | PSAPCGRB | - PROGRAM FLIH REGISTER 11 SAVE AREA |
| 2320 | (910) | DBL WORD | 8 | (0) | - ALIGN PSALKSA TO DOUBLE WORD |
| 2320 | (910) | BITSTRING | 64 | PSALKSA (0) | - IEAVELK REGISTER SAVE AREA OWNERSHIP: SUPERVISOR CONTROL SERIALIZATION: DISABLEMENT |
| 2320 | (910) | SIGNED | 4 | PSALKR0 | - IEAVELK REGISTER 0 SAVE AREA |
| 2324 | (914) | SIGNED | 4 | PSALKR1 | - IEAVELK REGISTER 1 SAVE AREA |
| 2328 | (918) | SIGNED | 4 | PSALKR2 | - IEAVELK REGISTER 2 SAVE AREA |
| 2332 | (91C) | SIGNED | 4 | PSALKR3 | - IEAVELK REGISTER 3 SAVE AREA |
| 2336 | (920) | SIGNED | 4 | PSALKR4 | - IEAVELK REGISTER 4 SAVE AREA |
| 2340 | (924) | SIGNED | 4 | PSALKR5 | - IEAVELK REGISTER 5 SAVE AREA |
| 2344 | (928) | SIGNED | 4 | PSALKR6 | - IEAVELK REGISTER 6 SAVE AREA |
| 2348 | (92C) | SIGNED | 4 | PSALKR7 | - IEAVELK REGISTER 7 SAVE AREA |
| 2352 | (930) | SIGNED | 4 | PSALKR8 | - IEAVELK REGISTER 8 SAVE AREA |
| 2356 | (934) | SIGNED | 4 | PSALKR9 | - IEAVELK REGISTER 9 SAVE AREA |
| 2360 | (938) | SIGNED | 4 | PSALKR10 | - IEAVELK REGISTER 10 SAVE AREA |
| 2364 | (93C) | SIGNED | 4 | PSALKR11 | - IEAVELK REGISTER 11 SAVE AREA |
| 2368 | (940) | SIGNED | 4 | PSALKR12 | - IEAVELK REGISTER 12 SAVE AREA |
| 2372 | (944) | SIGNED | 4 | PSALKR13 | - IEAVELK REGISTER 13 SAVE AREA |
| 2376 | (948) | SIGNED | 4 | PSALKR14 | - IEAVELK REGISTER 14 SAVE AREA |
| 2380 | (94C) | SIGNED | 4 | PSALKR15 | - IEAVELK REGISTER 15 SAVE AREA |
| 2384 | (950) | DBL WORD | 8 | (0) | - ALIGN PSASLSA TO DOUBLE WORD |
| 2384 | (950) | BITSTRING | 72 | PSASLSA | - SINGLE LEVEL SAVE AREA USED BY DISABLED ROUTINES WITH NO DEPENDENCY THAT THE SAVE AREA REMAIN INTACT ACROSS A CALL. THIS AREA IS NOT MAINTAINED BY RESTART PROCESSING THAT RESULTS IN AN ABEND OF OF THE INTERRUPTED ROUTINE. |
| 2384 | (950) | BITSTRING | 1 | PSAFF950 (0) | INITIALIZE FIELD PSASLSA |
| 2456 | (998) | BITSTRING | 64 | PSAJSTSA | - SAVE AREA FOR JOB STEP TIMING ROUTINE. OWNERSHIP: SUPERVISOR CONTROL. SERIALIZATION: DISABLEMENT. |
| 2456 | (998) | BITSTRING | 1 | PSAFF998 (0) | INITIALIZE FIELD PSAJSTSA |
| 2520 | (9D8) | DBL WORD | 8 | PSAUS2ND (0) | END SECOND SET OF ASSIGNED FIELDS SAVED BY ACR. |
| 2520 | (9D8) | DBL WORD | 8 | (0) | - ALIGN PSASLKSA TO DOUBLE WORD |
| 2520 | (9D8) | BITSTRING | 64 | PSASLKSA (0) | - IEAVESLK REGISTER SAVE AREA OWNERSHIP: SUPERVISOR CONTROL SERIALIZATION: DISABLEMENT |
| 2520 | (9D8) | SIGNED | 4 | PSASLKR0 | - IEAVESLK REGISTER 0 SAVE AREA |
| 2524 | (9DC) | SIGNED | 4 | PSASLKR1 | - IEAVESLK REGISTER 1 SAVE AREA |
| 2528 | (9E0) | SIGNED | 4 | PSASLKR2 | - IEAVESLK REGISTER 2 SAVE AREA |
| 2532 | (9E4) | SIGNED | 4 | PSASLKR3 | - IEAVESLK REGISTER 3 SAVE AREA |
| 2536 | (9E8) | SIGNED | 4 | PSASLKR4 | - IEAVESLK REGISTER 4 SAVE AREA |
| 2540 | (9EC) | SIGNED | 4 | PSASLKR5 | - IEAVESLK REGISTER 5 SAVE AREA |
| 2544 | (9F0) | SIGNED | 4 | PSASLKR6 | - IEAVESLK REGISTER 6 SAVE AREA |
| 2548 | (9F4) | SIGNED | 4 | PSASLKR7 | - IEAVESLK REGISTER 7 SAVE AREA |
| 2552 | (9F8) | SIGNED | 4 | PSASLKR8 | - IEAVESLK REGISTER 8 SAVE AREA |
| 2556 | (9FC) | SIGNED | 4 | PSASLKR9 | - IEAVESLK REGISTER 9 SAVE AREA |
| 2560 | (A00) | SIGNED | 4 | PSASLKRA | - IEAVESLK REGISTER 10 SAVE AREA |
| 2564 | (A04) | SIGNED | 4 | PSASLKRB | - IEAVESLK REGISTER 11 SAVE AREA |
| 2568 | (A08) | SIGNED | 4 | PSASLKRC | - IEAVESLK REGISTER 12 SAVE AREA |
| 2572 | (A0C) | SIGNED | 4 | PSASLKRD | - IEAVESLK REGISTER 13 SAVE AREA |
| 2576 | (A10) | SIGNED | 4 | PSASLKRE | - IEAVESLK REGISTER 14 SAVE AREA |
| 2580 | (A14) | SIGNED | 4 | PSASLKRF | - IEAVESLK REGISTER 15 SAVE AREA |
| 2584 | (A18) | BITSTRING | 36 | PSARVA18 | - RESERVED |
| 2620 | (A3C) | BITSTRING | 64 | PSASCSAV | IEAVESLCO save area |
| 2684 | (A7C) | BITSTRING | 1 | PSASFLGS | Schedule flags Ownership: Supervisor Control Serialization: Disablement |
| | | 1... | | PSASCHDA | "X'80" Schedule is active |
| | | .1.. | | PSAMCHA | "X'40" Machine Check is active |
| | | ..1. | | PSARSTA | "X'20" Restart is active |
| | | ...1 | | PSAEGRA | "X'10" Global Recovery is active |
| | | 1... | | PSARTMA | "X'08" Selected RTM functions are active |
| 2685 | (A7D) | BITSTRING | 3 | PSARVA7D | Reserved for future use - SC1C5 |
| 2688 | (A80) | BITSTRING | 188 | PSARVA80 | - RESERVED |

| Offsets | | | | | |
|---------|--------|------------|-----|--------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 2876 | (B3C) | ADDRESS | 4 | PSAGSCH7 | "V(IEAVESC7)" - ENABLED GLOBAL SCHEDULE ENTRY POINT |
| 2880 | (B40) | ADDRESS | 4 | PSAGSCH8 | "V(IEAVESC8)" - DISABLED GLOBAL SCHEDULE ENTRY POINT |
| 2884 | (B44) | ADDRESS | 4 | PSALSCH1 | "V(IEAVESC1)" - ENABLED SCHEDULE ENTRY POINT (MDC371) |
| 2888 | (B48) | ADDRESS | 4 | PSALSCH2 | "V(IEAVESC2)" - DISABLED SCHEDULE ENTRY POINT (MDC372) |
| 2892 | (B4C) | ADDRESS | 4 | PSASVT | "V(IEAVESVT)" - ADDRESS OF SUPERVISOR VECTOR TABLE (MDC373) |
| 2896 | (B50) | ADDRESS | 4 | PSASVTX | "V(IEAVSVTX)" Address of Supervisor Vector Table extension. |
| 2900 | (B54) | BITSTRING | 84 | PSARVB54 | SERIALIZATION: None OWNERSHIP: Supervisor Control |
| 2984 | (BA8) | SIGNED | 4 | PSAXSTK | - Reserved |
| | | | | | - OFFSET TO AND LENGTH OF THE ARRAY OF FRR STACK EXTENSION ENTRIES FROM THE START OF THE FRR STACK. THIS OFFSET FIXED BY ARCHITECTURE. |
| 2988 | (BAC) | BITSTRING | 84 | PSARVBAC | - RESERVED |
| 3072 | (C00) | DBL WORD | 8 | (0) | - ALIGN PSASTAK TO DOUBLE WORD MDC118 |
| 3072 | (C00) | BITSTRING | 1 | PSASTAK (88) | - NORMAL FRR STACK |
| 3928 | (F58) | BITSTRING | 1 | (168) | - RESERVED FOR EXPANSION OF PSASTAK |
| 4096 | (1000) | DBL WORD | 8 | PSAEND (0) | - END OF PSA (MDC612) |
| | | | | | Comment |

```

IHAPSAE_1;;
START OF SPECIFICATIONS
PROPRIETARY_STATEMENT
01 PROPRIETARY STATEMENT=
LICENSED MATERIALS - PROPERTY OF IBM
THIS MACRO IS "RESTRICTED MATERIALS OF IBM"
5694-A01 (C) COPYRIGHT IBM CORP. 2001
STATUS= HBB7705
END_OF_PROPRIETARY_STATEMENT
01 DESCRIPTIVE NAME: PSA Extension (z/Architecture)
02 ACRONYM: PSAE
01 MACRO NAME: IHAPSAE
01 EXTERNAL CLASSIFICATION:
01 NOTPI: BASE
01 PI: FIELDS FlceFacilitiesList
01 END OF EXTERNAL CLASSIFICATION:
01 DSECT NAME:
FLCESAME
01 COMPONENT: SUPERVISOR CONTROL (SC1C5)
01 EYE-CATCHER: NONE
01 STORAGE ATTRIBUTES:
02 SUBPOOL: N/A
02 KEY: N/A
02 RESIDENCY: N/A
01 SIZE:
FLCESAME -- X'0200' bytes
01 CONTROL BLOCK CHANGES:
02 IHAPSAE
02 6.8
03 New
03 Migration Considerations: NONE
01 END CONTROL BLOCK CHANGES
01 CREATED BY:
IEAVFX00
IEAVNIP0
IEEVCPR0
01 POINTED TO BY:

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PSA Map

| Offsets | | | | | |
|---|------|------------|-----|-------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| The PSAE maps the storage that starts at location 0 for the related processor. | | | | | |
| 01 SERIALIZATION: | | | | | |
| Disablement. | | | | | |
| None needed for FlceFacilitiesList. | | | | | |
| 01 FUNCTION: | | | | | |
| 02 Maps the z/Architecture format of the first page of the PSA. | | | | | |
| 02 This macro is automatically included when IHAPSA is included. | | | | | |
| 01 METHOD OF ACCESS: | | | | | |
| 02 ASM: | | | | | |
| IHAPSAE | | | | | |
| DSECT=YESINO -- Request DSECT definition | | | | | |
| PSAE=YESINOICOND -- Request PSAE mapping | | | | | |
| USING on PSAE | | | | | |
| Default: DSECT=YES,PSAE=YES | | | | | |
| Notes: name=YES => expand | | | | | |
| name=NO => do not expand | | | | | |
| name=COND => expand only if DSECT=YES | | | | | |
| 02 PL/X: | | | | | |
| %INCLUDE SYSLIB(IHAPSAE) | | | | | |
| 01 DELETED BY: N/A | | | | | |
| 01 FREQUENCY: N/A | | | | | |
| 01 DEPENDENCIES: None | | | | | |
| 01 NOTES: The FLCX can also be used to map the second 512 bytes of the area saved by Store Status at Address. | | | | | |
| 01 DISTRIBUTION LIBRARY: AMACLIB | | | | | |
| 01 CHANGE ACTIVITY: | | | | | |
| \$L0=64BITCBG HBB7703 971101 PD00XB: AR 8537 | | | | | |
| \$L1=64BITSUP HBB7703 971101 PD00XB: AR 8537 | | | | | |
| \$P1= HBB7703 990331 PDHC : AR-8660-02 and nits | | | | | |
| END OF SPECIFICATIONS | | | | | |
| % | | | | | |
| End of Comment | | | | | |
| 0 | (0) | DBL WORD | 8 | FLCESAME (0) | FLCE 0x: defined by architecture |
| 0 | (0) | CHARACTER | 8 | FLCEIPPSW | FLCE 0x: IPL PSW |
| 8 | (8) | CHARACTER | 8 | FLCEICCW1 | FLCE 8x: IPL CCW1 |
| 16 | (10) | CHARACTER | 8 | FLCEICCW2 | FLCE 10x: IPL CCW1 |
| 24 | (18) | CHARACTER | 104 | FLCER018 | FLCE 18x: reserved |
| 128 | (80) | CHARACTER | 4 | FLCEEPARM | FLCE 80x: External interruption parameter |
| 132 | (84) | CHARACTER | 2 | FLCECPUAD | FLCE 84x: CPU address |
| 134 | (86) | CHARACTER | 2 | FLCEEICODE | FLCE 86x: External interruption code |
| 136 | (88) | CHARACTER | 4 | FLCESDATA | FLCE 88x: Additional SVC interruption data |
| 136 | (88) | CHARACTER | 2 | FLCESDATABYTE0 | FLCE 88x: |
| 136 | (88) | CHARACTER | 1 | | FLCE 88x: Reserved |
| 137 | (89) | SIGNED | 1 | FLCESILC | FLCE 89x: SVC interruption length code |
| | |111 | | FLCESILCB | "X'07" FLCE 89x: Significant bits in ILC. Last bit is always zero |
| 138 | (8A) | CHARACTER | 2 | FLCESICODE | FLCE 8Ax: SVC interruption code |
| 140 | (8C) | CHARACTER | 4 | FLCEPDATA | FLCE 8Cx: Additional Program interruption data |
| 140 | (8C) | CHARACTER | 2 | FLCEPDATABYTE0 | FLCE 8Cx: |
| 140 | (8C) | CHARACTER | 1 | | FLCE 8Cx: Reserved |
| 141 | (8D) | SIGNED | 1 | FLCEPILC | FLCE 8Dx: Program interruption length code |
| | |111 | | FLCEPILCB | "X'07" FLCE 8Dx: Significant bits in ILC. Last bit is always zero |
| 142 | (8E) | CHARACTER | 2 | FLCEPICODE | FLCE 8Ex: Program interruption code |
| 142 | (8E) | SIGNED | 1 | FLCEPICODE0 | FLCE 8Ex: Exception extension code |
| 143 | (8F) | SIGNED | 1 | FLCEPICODE1 | FLCE 8Fx: 8-bit interruption code |
| | | 1... | | FLCEPIPER | "X'80" FLCE 8Fx: PER interruption code |
| | | .1.. | | FLCEPIMC | "X'40" FLCE 8Fx: Monitor Call interruption code |
| | | ..11 1111 | | FLCEPIPC | "X'3F" FLCE 8Fx: An unsolicited program interruption has occurred if any of these bits are on |
| 144 | (90) | CHARACTER | 4 | FLCEPIINFORMATION | FLCE 90x: |

| Offsets | | | | | |
|---------|------|------------|-----|-------------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 144 | (90) | CHARACTER | 3 | | |
| 147 | (93) | SIGNED | 1 | FLCEDXC | FLCE 93x: Data exception code for PI 7 |
| 148 | (94) | CHARACTER | 2 | FLCEMCNUM | FLCE 94x: Monitor class number |
| 150 | (96) | CHARACTER | 2 | FLCEPERCODE | FLCE 96x: PER code |
| 150 | (96) | BITSTRING | 1 | FLCEPERCODE0 | FLCE 96x: Byte 0 |
| | | 1... | | FLCEPERSB | "X'80" FLCE 96x: PER successful branch event |
| | | .1.. | | FLCEPERIF | "X'40" FLCE 96x: PER instruction fetch event |
| | | ..1. | | FLCEPERSA | "X'20" FLCE 96x: PER storage alteration event |
| | | 1... | | FLCEPERSAR | "X'08" FLCE 96x: PER storage alteration using real event |
| 151 | (97) | BITSTRING | 1 | FLCEPERATMID | FLCE 97x: PER addressing and translation mode ID |
| | | 1... | | FLCEPERPSW4 | "X'80" FLCE 97x: PER PSW bit 4 |
| | | .1.. | | FLCEPERATMIDVALID | "X'40" FLCE 97x: When 1, the ATMID bits are valid |
| | | ..1. | | FLCEPERPSW32 | "X'20" FLCE 97x: PER PSW bit 32 |
| | | ...1 | | FLCEPERPSW5 | "X'10" FLCE 97x: PER PSW bit 5 |
| | | 1... | | FLCEPERPSW16 | "X'08" FLCE 97x: PER PSW bit 16 |
| | |1.. | | FLCEPERPSW17 | "X'04" FLCE 97x: PER PSW bit 17 |
| | |11 | | FLCEPERASCEID | "X'03" FLCE 97x: PER ASCE identification. If a storage alteration event when DAT is on, identifies the ASCE used: '00' - primary ASCE '01' - AR-specified AR. '10' - secondary ASCE '11' - home ASCE |
| 152 | (98) | CHARACTER | 8 | FLCEPER | FLCE 98x: PER address |
| 152 | (98) | CHARACTER | 4 | FLCEPERW0 | FLCE 98x: PER address word 0 |
| 156 | (9C) | ADDRESS | 4 | FLCEPERW1 | FLCE 9Cx: PER address word 1 |
| 160 | (A0) | SIGNED | 1 | FLCEEAIID | FLCE A0x: Exception access ID (The AR number involved in the translation exception when bits 30-31 of the TEA='01') |
| 161 | (A1) | SIGNED | 1 | FLCEPERAID | FLCE A1x: PER access ID (the access register number involved in the PER storage alteration event) |
| 162 | (A2) | SIGNED | 1 | FLCEOPACID | FLCE A2x: |
| 163 | (A3) | CHARACTER | 1 | FLCEAMDID | FLCE A3x: Architecture mode ID (See FLCARCH in IHAPSA) |
| | |1 | | FLCELOEME | "X'01" Logout is Z/Architecture |
| 164 | (A4) | ADDRESS | 4 | FLCEMPL | FLCE A4x: MPL address |
| 168 | (A8) | CHARACTER | 8 | FLCETEID | FLCE A8x: Translation exception identification |
| 168 | (A8) | CHARACTER | 8 | FLCETEA | FLCE A8x: Translation exception address |
| 168 | (A8) | CHARACTER | 7 | | |
| 175 | (AF) | BITSTRING | 1 | FLCETEA7 | FLCE AFx: Byte 7 of FlceTEA |
| | | 1... | | FLCEPEALC | "X'08" FLCE AFx: Protection exception due to access-list control |
| | |1.. | | FLCESOPI | "X'04" FLCE AFx: Suppress on protection indication |
| | |11 | | FLCETEASTD | "X'03" FLCE AFx: Segment table designation for TEA: '00' - primary STD '01' - STD was AR-qualified '10' - secondary STD '11' - home STD |
| 168 | (A8) | CHARACTER | 8 | FLCETEASNINFO | FLCE A8x: ASN Info |
| 168 | (A8) | CHARACTER | 6 | | |
| 174 | (AE) | SIGNED | 2 | FLCETEASN | FLCE AEx: ASN |
| 168 | (A8) | CHARACTER | 8 | FLCETEPINFO | FLCE A8x: PC Info |
| 168 | (A8) | CHARACTER | 4 | | |
| 172 | (AC) | SIGNED | 4 | FLCEPCNUM | FLCE ACx: PC#. Bits 0-10 are 0, bit 11 is 1, and the PC# is in bits 12-31 |
| 176 | (B0) | CHARACTER | 8 | FLCEMONITORCODE | FLCE B0x: Monitor Code |
| 184 | (B8) | CHARACTER | 4 | FLCESSID | FLCE B8x: Subsystem ID word |
| 188 | (BC) | CHARACTER | 4 | FLCEIOINTPARM | FLCE BCx: I/O interruption parameter |
| 192 | (C0) | CHARACTER | 4 | FLCEIOINTID | FLCE C0x: I/O interruption ID |
| 196 | (C4) | CHARACTER | 4 | FLCER0C4 | FLCE C4x: Reserved |
| 200 | (C8) | CHARACTER | 4 | FLCEFACILITIESLIST | FLCE C8x: Facilities list stored by STFL |
| 200 | (C8) | BITSTRING | 1 | FLCEFACILITIESLISTBYTE0 | FLCE C8x |
| | | 1... | | FLCEZARCHN3 | "X'80" Instructions marked "N3" in the instruction summary are available on the CPU in ESA/390 mode |

PSA Cross Reference

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|-------------------------|---|
| Dec | Hex | | | | |
| | | 1... | | FLCEESAMEN3 | "X'80" Instructions marked "N3" in the instruction summary are available on the CPU in ESA/390 mode |
| | | .1.. | | FLCEZARCHINSTALLED | "X'40" The z/Architecture mode is installed on the CPU |
| | | .1.. | | FLCEESAMEINSTALLED | "X'40" The z/Architecture mode is installed on the CPU |
| | | ..1. | | FLCEZARCH | "X'20" The z/Architecture mode is active on the CPU |
| | | ..1. | | FLCEESAME | "X'20" The z/Architecture mode is active on the CPU |
| 201 | (C9) | BITSTRING | 1 | FLCEFACILITIESLISTBYTE1 | FLCE C9x |
| 202 | (CA) | BITSTRING | 1 | FLCEFACILITIESLISTBYTE2 | FLCE CAx |
| 203 | (CB) | BITSTRING | 1 | FLCEFACILITIESLISTBYTE3 | FLCE CBx |
| 204 | (CC) | CHARACTER | 8 | FLCER0CC | FLCE CCx: Reserved |
| 212 | (D4) | CHARACTER | 4 | FLCER0D4 | FLCE D4x: Reserved |
| 216 | (D8) | CHARACTER | 16 | FLCER0D8 | FLCE D8x: Reserved |
| 232 | (E8) | CHARACTER | 8 | FLCEMCIC | FLCE E8x: Machine check interruption code |
| 240 | (F0) | CHARACTER | 4 | FLCEMCICE | FLCE F0x: Machine check interruption code extension |
| 244 | (F4) | CHARACTER | 4 | FLCEEDCODE | FLCE F4x: External damage code |
| 248 | (F8) | CHARACTER | 8 | FLCEFSA | FLCE F8x: Failing storage address |
| 256 | (100) | CHARACTER | 32 | FLCER100 | FLCE 100x: Reserved |
| 288 | (120) | CHARACTER | 16 | FLCEROPSW | FLCE 120x: Restart old PSW |
| 304 | (130) | CHARACTER | 16 | FLCEEOPSW | FLCE 130x: External old PSW |
| 320 | (140) | CHARACTER | 16 | FLCESOPSW | FLCE 140x: SVC old PSW |
| 336 | (150) | CHARACTER | 16 | FLCEPOPSW | FLCE 150x: Program old PSW |
| 352 | (160) | CHARACTER | 16 | FLCEMOPSW | FLCE 160x: Machine check old PSW |
| 368 | (170) | CHARACTER | 16 | FLCEIOPSW | FLCE 170x: I/O old PSW |
| 384 | (180) | CHARACTER | 32 | FLCER180 | FLCE 180x: reserved |
| 416 | (1A0) | CHARACTER | 16 | FLCERNPSW | FLCE 1A0x: Restart new PSW |
| 432 | (1B0) | CHARACTER | 16 | FLCEENPSW | FLCE 1B0x: External new PSW |
| 448 | (1C0) | CHARACTER | 16 | FLCESNPSW | FLCE 1C0x: SVC new PSW |
| 464 | (1D0) | CHARACTER | 16 | FLCEPNPSW | FLCE 1D0x: Program new PSW |
| 480 | (1E0) | CHARACTER | 16 | FLCEMNPSW | FLCE 1E0x: Machine check new PSW |
| 496 | (1F0) | CHARACTER | 16 | FLCEINPSW | FLCE 1F0x: I/O new PSW |
| 496 | (1F0) | X'200' | 0 | FLCESAME_LEN | "*-FLCESAME" |

PSA Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|------------|------------|-----------|-------------------------|------------|-----------|
| EXCODE | 86 | 86 | FLCEESAMEINSTALLED | | |
| EXNPSW | 5C | 58 | | C8 | 40 |
| EXOPSW | 18 | 18 | FLCEESAMEN3 | C8 | 80 |
| FLC | 0 | 0 | FLCEFACILITIESLIST | | |
| FLCARCH | A3 | 0 | | C8 | |
| FLCARSAV | 120 | 0 | FLCEFACILITIESLISTBYTE0 | | |
| FLCATMID | 97 | 0 | | C8 | |
| FLCCCSA | E0 | 0 | FLCEFACILITIESLISTBYTE1 | | |
| FLCCRSAV | 1C0 | 0 | | C9 | |
| FLCCTSA | D8 | 0 | FLCEFACILITIESLISTBYTE2 | | |
| FLCCVT | 10 | | | CA | |
| FLCCVT2 | 4C | | FLCEFACILITIESLISTBYTE3 | | |
| FLCDXC | 93 | | | CB | |
| FLCEAMDID | A3 | | FLCEFSA | F8 | |
| FLCECPUAD | 84 | | FLCEICCW1 | 8 | |
| FLCEDXC | 93 | | FLCEICCW2 | 10 | |
| FLCEEAIID | A0 | | FLCEICOD | 86 | 0 |
| FLCEEDCODE | F4 | | FLCEINPSW | 1F0 | |
| FLCEEICODE | 86 | | FLCEIINTID | C0 | |
| FLCEENPSW | 1B0 | | FLCEIINTPARM | | |
| FLCEEOPSW | 130 | | | BC | |
| FLCEEPARM | 80 | | FLCEIOPSW | 170 | |
| FLCEESAME | C8 | 20 | FLCEIPPSW | 0 | |

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|-------------------|------------|-----------|--------------------|------------|-----------|
| FLCELOEME | A3 | 1 | FLCESILC | 89 | |
| FLCEMCIC | E8 | | FLCESILCB | 89 | 7 |
| FLCEMCICE | F0 | | FLCESNPSW | 1C0 | |
| FLCEMCNUM | 94 | | FLCESOPI | AF | 4 |
| FLCEMNPSW | 1E0 | | FLCESOPSW | 140 | |
| FLCEMONITORCODE | B0 | | FLCESSID | B8 | |
| FLCEMOPSW | 160 | | FLCETEA | A8 | |
| FLCEMPL | A4 | | FLCETEASN | AE | |
| FLCENPSW | 58 | 40C0000 | FLCETEASNINFO | A8 | |
| FLCEOPACID | A2 | | FLCETEASTD | AF | 3 |
| FLCEOPSW | 18 | 0 | FLCETEA7 | AF | |
| FLCEPCNUM | AC | | FLCETEID | A8 | |
| FLCEPDATA | 8C | | FLCETEPINFO | A8 | |
| FLCEPDATABYTE0 | 8C | | FLCEZARCH | C8 | 20 |
| FLCEPEALC | AF | 8 | FLCEZARCHINSTALLED | C8 | 40 |
| FLCEPER | 98 | | FLCEZARCHN3 | C8 | 80 |
| FLCEPERAID | A1 | | FLCFACL | C8 | 0 |
| FLCEPERASCEID | 97 | 3 | FLCFLA | 100 | 0 |
| FLCEPERATMID | 97 | | FLCFPSAV | 160 | 0 |
| FLCEPERATMIDVALID | 97 | 40 | FLCFSA | F8 | |
| FLCEPERCODE | 96 | | FLCGRSAV | 180 | 0 |
| FLCEPERCODE0 | 96 | | FLCHDEND | 200 | |
| FLCEPERIF | 96 | 40 | FLCICCW1 | 8 | |
| FLCEPERPSW16 | 97 | 8 | FLCICCW2 | 10 | |
| FLCEPERPSW17 | 97 | 4 | FLCINPSW | 78 | 40C0000 |
| FLCEPERPSW32 | 97 | 20 | FLCIOCDP | B8 | |
| FLCEPERPSW4 | 97 | 80 | FLCIOFP | BC | 0 |
| FLCEPERPSW5 | 97 | 10 | FLCIOPSW | 38 | 0 |
| FLCEPERSA | 96 | 20 | FLCIPPSW | 0 | |
| FLCEPERSAR | 96 | 8 | FLCMCIC | E8 | 0 |
| FLCEPERSB | 96 | 80 | FLCMCNUM | 95 | 0 |
| FLCEPERW0 | 98 | | FLCMNPSW | 70 | 80000 |
| FLCEPERW1 | 9C | | FLCMOPSW | 30 | 0 |
| FLCEPICODE | 8E | | FLCMTRCD | 9D | 0 |
| FLCEPICODE0 | 8E | | FLCPER | 98 | |
| FLCEPICODE1 | 8F | | FLCPERCD | 96 | 0 |
| FLCEPIINFORMATION | 90 | | FLCPERRN | A1 | 0 |
| FLCEPILC | 8D | | FLCPICOD | 8E | |
| FLCEPILCB | 8D | 7 | FLCPIILC | 8D | 0 |
| FLCEPIMC | 8F | 40 | FLCPILCB | 8D | 7 |
| FLCEPIPC | 8F | 3F | FLCPNPSW | 68 | A0000 |
| FLCEPIPER | 8F | 80 | FLCPOPSW | 28 | 0 |
| FLCEPNPSW | 1D0 | | FLCPSWB4 | 97 | 80 |
| FLCEPOPSW | 150 | | FLCRNPSW | 0 | 40E0000 |
| FLCERNPSW | 1A0 | | FLCROPSW | 8 | 0 |
| FLCEROPSW | 120 | | FLCRV110 | 110 | 0 |
| FLCER0CC | CC | | FLCSID | B8 | 0 |
| FLCER0C4 | C4 | | FLCSILCB | 89 | 7 |
| FLCER0D4 | D4 | | FLCSNPSW | 60 | 40C0000 |
| FLCER0D8 | D8 | | FLCSOPI | 93 | 4 |
| FLCER018 | 18 | | FLCSOPSW | 20 | 0 |
| FLCER100 | 100 | | FLCSVCN | 8A | 0 |
| FLCER180 | 180 | | FLCSVILC | 89 | 0 |
| FLCESAME | 0 | | FLCTEA | 90 | |
| FLCESAME_LEN | 1F0 | 200 | FLCTEAB3 | 93 | 0 |
| FLCESAR | D4 | | FLCTEACL | 93 | FFF000 |
| FLCESDATA | 88 | | FLCTEARN | A0 | 0 |
| FLCESDATABYTE0 | 88 | | FLCTEAXM | 90 | 80 |
| FLCESICODE | 8A | | FLCTSTDA | 93 | 1 |
| | | | FLCTSTDH | 93 | 3 |
| | | | FLCTSTDP | 93 | 0 |
| | | | FLCTSTDSDS | 93 | 2 |
| | | | IEATCBP | 218 | 218 |

PSA Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| IONPSW | 7C | 78 | PSADCR3 | 6B8 | |
| IOOPSW | 38 | 38 | PSADCR3I | 670 | |
| IPLPSW | 4 | 0 | PSADCR4 | 6BC | |
| MCNPSW | 74 | 70 | PSADCR4I | 674 | |
| MCOPSW | 30 | 30 | PSADISP | 228 | 4 |
| PICODE | 8E | 8E | PSADISPL | 280 | |
| PIILC | 8D | 8D | PSADISPM | 49F | 10 |
| PINPSW | 6C | 68 | PSADPAS | 6BE | FFFF |
| PIOPSW | 28 | 28 | PSADPASI | 676 | FFFF |
| PSA | 0 | | PSADPKM | 6B8 | FFFF |
| PSAACR | 229 | 4 | PSADPKMI | 670 | FFFF |
| PSAACTCD | 30E | 0 | PSADSABL | 589 | 0 |
| PSAAEIT | 240 | 80 | PSADSARS | 678 | 0 |
| PSAANEW | 220 | | PSADSAS | 6BA | FFFF |
| PSAOLD | 224 | | PSADSASI | 672 | FFFF |
| PSAASAV | 3DC | | PSADSPLI | 2FA | 10 |
| PSAASD | 59A | 0 | PSADTSV | 6C0 | |
| PSAASMI | 2F9 | 2 | PSADXMSI | 670 | |
| PSAASMGL | 2B4 | | PSADXMSV | 6B8 | |
| PSAASML | 284 | | PSADZERO | 4A8 | |
| PSAASMLI | 2FA | 8 | PSAECLTP | 4C0 | |
| PSAASK | 3D8 | | PSAECCOD | 8E | 0 |
| PSAATCVT | 408 | | PSAEPPSW | 84 | |
| PSAAXP | 23C | 80 | PSAEGRA | A7C | 10 |
| PSABLSDI | 4C4 | 80 | PSAEMEMA | 24B | 80 |
| PSACDSAE | 800 | FFFFFFFF | PSAEMS2M | 26C | 26D |
| PSACDSAF | 804 | FFFFFFFF | PSAEMS2R | 824 | FFFFFFFF |
| PSACDSAV | 800 | | PSAEMS2S | 26C | |
| PSACDSA0 | 808 | FFFFFFFF | PSAENABL | 589 | 10 |
| PSACDSA1 | 80C | FFFFFFFF | PSAEND | 1000 | |
| PSACLHS | 2F8 | | PSAEPARM | 80 | 0 |
| PSACLHSE | 4C4 | | PSAEPSPW | 8C | |
| PSACLHS1 | 2F8 | 0 | PSAESAME | A3 | 1 |
| PSACLHS2 | 2F9 | 0 | PSAESAR | 22B | 20 |
| PSACLHS3 | 2FA | 0 | PSAESAV1 | 3A4 | |
| PSACLHS4 | 2FB | 0 | PSAESAV2 | 3AC | |
| PSACLHT | 280 | | PSAESAV3 | 3B4 | |
| PSACLHT1 | 280 | | PSAESC8 | 664 | 0 |
| PSACLHT2 | 2D0 | | PSAESETI | 4C4 | 8 |
| PSACLHT3 | 2E0 | | PSAESPSW | 88 | |
| PSACLHT4 | 2E8 | | PSAESTA | 22A | 8 |
| PSACMSL | 2E8 | | PSAESTK1 | 3A0 | |
| PSACMSLI | 2FB | 2 | PSAESTK2 | 3A8 | |
| PSACNTXI | 4C5 | 4 | PSAESTK3 | 3B0 | |
| PSACPCLS | 5A8 | | PSAEXT | 228 | 20 |
| PSACPUL | 2E0 | | PSAFF6C0 | 6C0 | FFFFFFFF |
| PSACPULA | 206 | 0 | PSAFF7E8 | 7E8 | FFFFFFFF |
| PSACPULI | 2F8 | 80 | PSAFF8A8 | 8A8 | FFFFFFFF |
| PSACPUPA | 204 | 0 | PSAFF950 | 950 | FFFFFFFF |
| PSACPUSA | 31A | 0 | PSAFF998 | 998 | FFFFFFFF |
| PSACPUT | 470 | 0 | PSAFLAGS | 240 | 0 |
| PSACR0 | 308 | 0 | PSAFPAC | 240 | 40 |
| PSACR0CB | 589 | 0 | PSAFPPE | 240 | 20 |
| PSACR0EN | 58C | 10 | PSAFZERO | 4A8 | 0 |
| PSACR0FP | 58C | 4 | PSAGPREG | 8F0 | FFFFFFFF |
| PSACR0M1 | 5BC | FFFF01AF | PSAGSAV | 8A8 | |
| PSACR0M2 | 5C0 | FE50 | PSAGSCH7 | B3C | |
| PSACR0SV | 58C | 0 | PSAGSCH8 | B40 | |
| PSACR0VI | 58C | 2 | PSAGSPSW | 810 | FFFFFFFF |
| PSACSTK | 380 | | PSAGSRGS | 814 | FFFFFFFF |
| PSADATLK | 7B0 | 0 | PSAHLHI | 2F8 | |
| PSADATLN | 7E4 | FFFFFFFF | PSAHLHIS | 274 | 0 |
| PSADATOF | 7E0 | | PSAHWFB | 588 | 0 |
| PSADAX | 6BC | FFFF | PSAIDAWK | 320 | 0 |
| PSADAXI | 674 | FFFF | PSAILS | 23D | 0 |

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|-----------|------------|-----------|----------|------------|-----------|
| PSAILSIDS | 23D | 10 | PSALKS3 | 2E0 | 1 |
| PSAILSEX | 23D | 40 | PSALKS4 | 2EC | 2 |
| PSAILSIO | 23D | 80 | PSALOCAL | 2EC | |
| PSAILSLK | 23D | 1 | PSALOCK | 228 | 8 |
| PSAILSOR | 23D | 4 | PSALSCH1 | B44 | |
| PSAILSPC | 23D | 20 | PSALSCH2 | B48 | |
| PSAILSRS | 23D | 8 | PSALSFCC | 3F4 | |
| PSAILST6 | 23D | 2 | PSALSVCI | 23E | 0 |
| PSAINT | 3FB | 0 | PSALWPSW | 3C0 | 0 |
| PSAINTIN | 264 | | PSALWTS | 27C | |
| PSAIO | 228 | 80 | PSAMCHA | A7C | 40 |
| PSAIOPR | 5B8 | 80 | PSAMCHEX | 258 | 0 |
| PSAIORTY | 5B8 | 40 | PSAMCHFL | 30C | 0 |
| PSAIOSEX | 2D8 | 80 | PSAMCHIC | 30F | 0 |
| PSAIOSI | 2F8 | 2 | PSAMFLGS | 49D | 0 |
| PSAIOSL | 2D8 | | PSAMODE | 49F | 0 |
| PSAIOSLI | 2FA | 2 | PSAMODEH | 49E | 0 |
| PSAIOSSL | 28C | | PSAMODEW | 49C | |
| PSAIOSUL | 294 | | PSAMPL | A4 | |
| PSAIOSUP | 22A | 80 | PSAMPSW | 250 | C0000 |
| PSAIOULI | 2FB | 80 | PSAMSAV | 394 | |
| PSAIPCIN | 268 | | PSAMSTK | 390 | |
| PSAIPCRI | 229 | 80 | PSANSS | 49D | 80 |
| PSAIPCSM | 268 | 269 | PSANSTK | 384 | |
| PSAIXDSI | 4C4 | 1 | PSANUIN | 3FB | 80 |
| PSAIXLLI | 4C5 | 80 | PSAOPTL | 2A8 | |
| PSAIXLRI | 4C5 | 20 | PSAPAWA | 5B4 | |
| PSAIXSCI | 4C4 | 4 | PSAPCAD | 478 | 4 |
| PSAIXSHI | 4C4 | 2 | PSAPCAF | 478 | 8 |
| PSAJSTSA | 998 | 0 | PSAPCART | 478 | A |
| PSALCCAR | 214 | | PSAPCAVR | 47A | 1 |
| PSALCCAV | 210 | | PSAPCCAR | 20C | |
| PSALCLLI | 2FB | 1 | PSAPCCAV | 208 | |
| PSALCPUA | 2F4 | | PSAPCCR0 | 590 | 0 |
| PSALCR | 229 | 1 | PSAPCDAR | 478 | C |
| PSALDWT | 22B | 80 | PSAPCDE | 47A | 20 |
| PSALHEB0 | 4C4 | 0 | PSAPCDNV | 47B | 80 |
| PSALHEB1 | 4C5 | 0 | PSAPCDPF | 478 | B |
| PSALHEB2 | 4C6 | 0 | PSAPCFB1 | 478 | 0 |
| PSALHEB3 | 4C7 | 0 | PSAPCFB2 | 479 | 0 |
| PSALITA | 2FC | | PSAPCFB3 | 47A | 0 |
| PSALIT2 | 4BC | | PSAPCFB4 | 47B | 0 |
| PSALKCRF | 24C | | PSAPCFUN | 478 | |
| PSALKJW | 4A4 | 0 | PSAPCGAB | 908 | |
| PSALKJW2 | 4B0 | 0 | PSAPCGRA | 908 | FFFFFFFF |
| PSALKPT | 4B4 | | PSAPCGRB | 90C | FFFFFFFF |
| PSALKR0 | 910 | FFFFFFFF | PSAPCGR8 | 900 | FFFFFFFF |
| PSALKR1 | 914 | FFFFFFFF | PSAPCGR9 | 904 | FFFFFFFF |
| PSALKR10 | 938 | FFFFFFFF | PSAPCLS | 478 | 9 |
| PSALKR11 | 93C | FFFFFFFF | PSAPCLSR | 47B | 40 |
| PSALKR12 | 940 | FFFFFFFF | PSAPCLV | 47A | 10 |
| PSALKR13 | 944 | FFFFFFFF | PSAPCMAX | 478 | D |
| PSALKR14 | 948 | FFFFFFFF | PSAPCMC | 478 | 1 |
| PSALKR15 | 94C | FFFFFFFF | PSAPCMT | 479 | 40 |
| PSALKR2 | 918 | FFFFFFFF | PSAPCPC | 478 | 6 |
| PSALKR3 | 91C | FFFFFFFF | PSAPCPF | 478 | 2 |
| PSALKR4 | 920 | FFFFFFFF | PSAPCPFR | 47A | 2 |
| PSALKR5 | 924 | FFFFFFFF | PSAPCPRT | 478 | D |
| PSALKR6 | 928 | FFFFFFFF | PSAPCPS | 478 | 3 |
| PSALKR7 | 92C | FFFFFFFF | PSAPCPSW | 400 | 0 |
| PSALKR8 | 930 | FFFFFFFF | PSAPCPS2 | 47C | 0 |
| PSALKR9 | 934 | FFFFFFFF | PSAPCPS3 | 498 | 0 |
| PSALKSA | 910 | | PSAPCPS4 | 49A | 0 |
| PSALKS1 | 2C8 | 13 | PSAPCP1 | 47A | 80 |
| PSALKS2 | 2D8 | 3 | PSAPCP2 | 47A | 40 |

PSA Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|-----------|------------|-----------|----------|------------|-----------|
| PSAPCP3 | 47A | 8 | PSARVLK5 | 2E4 | |
| PSAPCP4 | 47A | 4 | PSARVLK6 | 2F0 | |
| PSAPCTR | 478 | 5 | PSARV2A0 | 2A0 | |
| PSAPCTRC | 478 | 7 | PSARV22C | 22C | 0 |
| PSAPCTRR | 479 | 80 | PSARV241 | 241 | 0 |
| PSAPCWKA | 480 | 0 | PSARV29C | 29C | |
| PSAPEXM | 250 | 1 | PSARV3E8 | 3E8 | 0 |
| PSAPI | 228 | 10 | PSARV4B8 | 4B8 | 0 |
| PSAPICOD | 8F | 0 | PSARV4C8 | 4C8 | 0 |
| PSAPIMC | 8F | 40 | PSARV4D0 | 4D0 | 0 |
| PSAPIOM | 250 | 2 | PSARV428 | 428 | 0 |
| PSAPIPC | 8F | 3F | PSARV47E | 47E | 0 |
| PSAPIPER | 8F | 80 | PSARV5AC | 5AC | 0 |
| PSAPRSRB | 49D | 40 | PSARV5C4 | 5C4 | 0 |
| PSAPSA | 200 | D7E2C140 | PSARV6C8 | 6C8 | 0 |
| PSAPSAV | 39C | | PSARV7E8 | 7E8 | |
| PSAPSRBM | 49F | 20 | PSARV818 | 818 | 0 |
| PSAPSTK | 398 | | PSARV868 | 868 | 0 |
| PSAPSWSV | 468 | 0 | PSASALCL | 288 | |
| PSAPTYPE | 23C | 0 | PSASALLI | 2FA | 4 |
| PSARCR0 | 594 | 0 | PSASCAFF | 24B | 0 |
| PSARECUR | 278 | 0 | PSASCFB | 5B8 | 0 |
| PSAREGSI | 4C5 | 2 | PSASCFS | 5B0 | |
| PSARET | 37A | | PSASCHDA | A7C | 80 |
| PSARETCD | 37C | | PSASCPSW | 418 | C0000 |
| PSARPEN | 594 | 10 | PSASCRG1 | 8E8 | FFFFFFFF |
| PSARSAV | 3BC | | PSASCRG2 | 8EC | FFFFFFFF |
| PSARSM | 22A | 4 | PSASCSAV | A3C | 0 |
| PSARSMAI | 2FA | 40 | PSASCWA | 410 | |
| PSARSMAL | 2C0 | | PSASEL | 59C | 0 |
| PSARSMCI | 2F9 | 10 | PSASFACC | 3F0 | 8007D000 |
| PSARSMCL | 2C8 | | PSASFLGS | A7C | 0 |
| PSARSMDI | 2FA | 1 | PSASKPSW | 5A0 | C0000 |
| PSARSMDL | 290 | | PSASKPS2 | 5A4 | |
| PSARSMEX | 2D0 | 80 | PSASLIP | 22A | 1 |
| PSARSMGI | 2F9 | 8 | PSASLKRA | A00 | FFFFFFFF |
| PSARSMGL | 2AC | | PSASLKRB | A04 | FFFFFFFF |
| PSARSMML | 2D0 | | PSASLKRC | A08 | FFFFFFFF |
| PSARSMMLI | 2F8 | 8 | PSASLKRD | A0C | FFFFFFFF |
| PSARSMSA | 414 | | PSASLKRE | A10 | FFFFFFFF |
| PSARMSMI | 2F9 | 1 | PSASLKRF | A14 | FFFFFFFF |
| PSARMSML | 2B8 | | PSASLKR0 | 9D8 | FFFFFFFF |
| PSARSMXI | 2FA | 80 | PSASLKR1 | 9DC | FFFFFFFF |
| PSARSMXL | 2BC | | PSASLKR2 | 9E0 | FFFFFFFF |
| PSARSPSW | 3C8 | 0 | PSASLKR3 | 9E4 | FFFFFFFF |
| PSARSREG | 8FC | FFFFFFFF | PSASLKR4 | 9E8 | FFFFFFFF |
| PSARSSM | 279 | 0 | PSASLKR5 | 9EC | FFFFFFFF |
| PSARSTA | A7C | 20 | PSASLKR6 | 9F0 | FFFFFFFF |
| PSARSTK | 3B8 | | PSASLKR7 | 9F4 | FFFFFFFF |
| PSARSVT | 380 | | PSASLKR8 | 9F8 | FFFFFFFF |
| PSARSVTE | 380 | | PSASLKR9 | 9FC | FFFFFFFF |
| PSARTM | 229 | 2 | PSASLKSA | 9D8 | |
| PSARTMA | A7C | 8 | PSASLSA | 950 | |
| PSARTM1M | 3FC | 3FD | PSASMF | 22B | 40 |
| PSARTM1R | 3FC | | PSASMPSW | 420 | 70C0000 |
| PSARTM1S | 27B | 0 | PSASNSM2 | 27A | 0 |
| PSARTPSW | 3E0 | 0 | PSASPAD | 84 | 0 |
| PSARVA18 | A18 | 0 | PSASPR | 22A | 10 |
| PSARVA7D | A7D | 0 | PSASRBM | 49F | 4 |
| PSARVA80 | A80 | 0 | PSASRMLI | 2FB | 4 |
| PSARVBAC | BAC | 0 | PSASRSAV | 660 | FFFFFFFF |
| PSARVB54 | B54 | 0 | PSASSAV | 38C | |
| PSARVLK1 | 298 | | PSASSDLI | 4C5 | 1 |
| PSARVLK2 | 2CC | | PSASSTK | 388 | |
| PSARVLK4 | 2DC | | PSASTAK | C00 | 0 |

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| PSASTKE | 598 | | PSAVFIXL | 2B0 | |
| PSASTNSM | 4A3 | 0 | PSAVPAGI | 2FA | 20 |
| PSASTOR | 31C | 0 | PSAVPAGL | 2C4 | |
| PSASTOR8 | 300 | 0 | PSAVSTAP | 318 | 0 |
| PSASTOSM | 270 | | PSAWAITM | 49F | 8 |
| PSASTSSM | 270 | 271 | PSAWKRAP | 310 | |
| PSASUM | 2F8 | 10 | PSAWKVAP | 314 | |
| PSASUPER | 228 | | PSAWLMQI | 4C5 | 8 |
| PSASUP1 | 228 | 0 | PSAWLMRI | 4C5 | 10 |
| PSASUP2 | 229 | 0 | PSAWTCOD | 40C | |
| PSASUP3 | 22A | 0 | PSAXDSI | 4C4 | 40 |
| PSASUP4 | 22B | 0 | PSAXQI | 4C4 | 10 |
| PSASVC | 228 | 40 | PSAXRESI | 4C4 | 20 |
| PSASVCR | 229 | 40 | PSAXSTK | BA8 | FFFFFFFF |
| PSASVCCR | 229 | 20 | PSAZARCH | A3 | 1 |
| PSASVC13 | 3F8 | | SVCILC | 89 | 89 |
| PSASVT | B4C | | SVCNPSW | 64 | 60 |
| PSASVTX | B50 | | SVCNUM | 8A | 8A |
| PSASV01R | 81C | 0 | SVCOPSW | 20 | 20 |
| PSASV14R | 820 | 0 | | | |
| PSASYMSK | 30D | 0 | | | |
| PSATASKM | 49F | 0 | | | |
| PSATBVTR | 7F0 | | | | |
| PSATBVTV | 7F4 | | | | |
| PSATCLIN | 260 | | | | |
| PSATCTL | 228 | 2 | | | |
| PSATIME | 658 | 0 | | | |
| PSATKN | 598 | 0 | | | |
| PSATNEW | 218 | | | | |
| PSATOLD | 21C | | | | |
| PSATOT | 7FC | | | | |
| PSATPACL | 2A4 | | | | |
| PSATPALI | 2FB | 8 | | | |
| PSATRACE | 7EC | 0 | | | |
| PSATRCEI | 2F8 | 4 | | | |
| PSATRCEL | 2D4 | | | | |
| PSATRCEX | 2D4 | 80 | | | |
| PSATRGRA | 850 | FFFFFFFF | | | |
| PSATRGRB | 854 | FFFFFFFF | | | |
| PSATRGRC | 858 | FFFFFFFF | | | |
| PSATRGRD | 85C | FFFFFFFF | | | |
| PSATRGRE | 860 | FFFFFFFF | | | |
| PSATRGRF | 864 | FFFFFFFF | | | |
| PSATRGR0 | 828 | FFFFFFFF | | | |
| PSATRGR1 | 82C | FFFFFFFF | | | |
| PSATRGR2 | 830 | FFFFFFFF | | | |
| PSATRGR3 | 834 | FFFFFFFF | | | |
| PSATRGR4 | 838 | FFFFFFFF | | | |
| PSATRGR5 | 83C | FFFFFFFF | | | |
| PSATRGR6 | 840 | FFFFFFFF | | | |
| PSATRGR7 | 844 | FFFFFFFF | | | |
| PSATRGR8 | 848 | FFFFFFFF | | | |
| PSATRGR9 | 84C | FFFFFFFF | | | |
| PSATROFF | 7EC | 80 | | | |
| PSATRSAP | 828 | | | | |
| PSATRV | 7F8 | | | | |
| PSATSAV | 3D4 | | | | |
| PSATSTK | 3D0 | | | | |
| PSATYPE6 | 228 | 1 | | | |
| PSAULCMS | 22A | 2 | | | |
| PSAULUTI | 4C5 | 40 | | | |
| PSAUSEND | 6C8 | | | | |
| PSAUS2ND | 9D8 | | | | |
| PSAUS2ST | 800 | | | | |
| PSAVFIXI | 2F9 | 4 | | | |

PSL Programming Interface information

Programming Interface information

PSL

ONLY the following fields are part of the programming interface information:

- PSLAST
- PSLCHAIN
- PSLEND
- PSLNULL
- PSLSTRT

End of Programming Interface information

PSL Heading Information

Common Name: Page Service List Entry
Macro ID: IHAPSL
DSECT Name: PSL
Owning Component: Real Storage Manager (SC1CR)
Eye-Catcher ID: None
Storage Attributes: Virtual Storage: Yes
 Subpool: USER SPECIFIED.
 Key: USER SPECIFIED.
 Residency: USER SPECIFIED.
Size: 12 bytes
Created by: Caller
Pointed to by: R1 on entry to PGSER Macro Service Routine
Serialization: USER SPECIFIED.
Function: A page service list is a parameter list requesting paging services. Each list entry either (1) specifies a range of addresses to be operated on, or (2) specifies the address of the next list entry to be processed, or (3) is null. The first entry also indicates which paging service is to be performed on all ranges specified in the list.

PSL Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------------------|-----|--------------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | PSL | , PSLPTR |
| 0 | (0) | ADDRESS | 4 | PSLSTRT | 31-BIT START ADDRESS OF THE VIRTUAL AREA OR A POINTER TO THE NEXT PSL. BIT 0 IS RESERVED AND MUST BE 0. |
| 4 | (4) | ADDRESS | 4 | PSLEND | IF PSLSTRT IS THE START ADDRESS, THEN PSLEND IS THE 31-BIT ADDRESS OF THE FINAL BYTE OF THE VIRTUAL AREA. BIT 0 IS RESERVED AND MUST BE 0. IF PSLSTRT IS A POINTER TO THE NEXT PSL, THEN PSLEND IS RESERVED. |
| 8 | (8) | BITSTRING 1... | 1 | PSLFLGS1 PSLAST | FLAGS SET BY CALLER "X'80" IF 1, THEN THIS IS THE LAST PSL IN THE CONCATENATION OF PSLs. (NOTE THAT PSLAST IS IGNORED IF PSLCHAIN=1 AND PSLNULL=0). |
| | | .1... | | PSLNULL | "X'40" IF 1, THEN NO PAGE SERVICE PROCESSING IS PERFORMED FOR THE RANGE OF ADDRESSES SPECIFIED IN PSLSTRT, PSLEND. ADDITIONALLY, IF PSLNULL=1, THEN THE PSLCHAIN FIELD IS IGNORED. PSLNULL=1 DOES NOT AFFECT THE PROCESSING OF THE PSLFLGS2, PSLFUNC, PSRLTN FIELDS. |
| | | ..1. | | PSLCHAIN | "X'20" IF 1, THEN PSLSTRT IS A POINTER TO THE NEXT PSL TO BE PROCESSED AND PSLEND IS RESERVED. PSLCHAIN IS IGNORED IF PSLNULL=1. IF PSLNULL=0, PSLCHAIN=1, AND PSLAST=1, THEN PSLAST IS IGNORED AND PSLSTRT IS USED TO POINT TO THE NEXT PSL TO PROCESS. |
| 9 | (9) | BITSTRING | 1 | PSRLTN | RESERVED |
| 10 | (A) | BITSTRING | 2 | PSLFCTL (0) | PAGE SERVICE FUNCTION SPECIFICATION FIELD. |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|--------------|---|
| Dec | Hex | | | | |
| 10 | (A) | BITSTRING | 1 | PSLFUNC | RESERVED. SET BY PGSER MACRO INSTRUCTION IN FIRST OR ONLY PSL IN LIST OF PSLs. MEANING NOT AFFECTED BY CONTENTS OF PSLFLGS1. THE PSLFUNC FIELD IN THE FIRST OR ONLY PSL IN THE LIST OF PSLs SPECIFIES THE PAGE SERVICE WHICH IS TO BE INVOKED TO PROCESS ALL THE RANGE(S) OF ADDRESSES WHICH ARE SPECIFIED IN THE PSLs IN THE LIST. PSLFUNC IS IGNORED IN ANY PSLs IN THE LIST SUBSEQUENT TO THE FIRST PSL. |
| | |1 | | PSLFFIX | "X'01" FUNCTION REQUESTED IS PAGE FIX |
| | |1. | | PSLFFREE | "X'02" FUNCTION REQUESTED IS PAGE FREE |
| | |11 | | PSLFANYW | "X'03" FUNCTION REQUESTED IS ANYWHERE |
| | |1.. | | PSLFLOAD | "X'04" FUNCTION REQUESTED IS PAGE LOAD |
| | |1.1 | | PSLFOUT | "X'05" FUNCTION REQUESTED IS PAGE OUT |
| | |11. | | PSLFRELS | "X'06" FUNCTION REQUESTED IS PAGE RELEASE |
| | |111 | | PSLFPROT | "X'07" FUNCTION REQUEST IS PAGE PROTECT |
| | | 1... | | PSLFUNP | "X'08" FUNCTION REQUEST IS PAGE UNPROTECT |
| 11 | (B) | BITSTRING | 1 | PSLFLGS2 | RESERVED. SET BY PGSER MACRO INSTRUCTION IN FIRST OR ONLY PSL IN LIST OF PSLs. MEANING NOT AFFECTED BY CONTENTS OF PSLFLGS1. THE PSLFLGS2 FIELD IN THE FIRST OR ONLY PSL IN THE LIST OF PSLs SPECIFIES MODIFIERS TO BE APPLIED TO THE PAGE SERVICE SPECIFIED IN PSLFUNC IN PROCESSING THE RANGE(S) OF ADDRESSES WHICH ARE SPECIFIED IN THE LIST. PSLFLGS2 IS IGNORED IN ANY PSLs IN THE LIST SUBSEQUENT TO THE FIRST PSL. |
| | | .1.. | | PSLRLSE | "X'40" IF 1, RELEASE=Y WAS CODED ON PGSER MACRO |
| | | ..1. | | PSLKEPRL | "X'20" IF 1, KEEPREL=Y WAS CODED ON PGSER MACRO |
| | | ...1 | | PSLANYW | "X'10" IF 1, ANYWHERE=Y WAS CODED ON PGSER MACRO |
| | | 1... | | PSLONG | "X'08" IF 1, LONG=Y WAS CODED OR DEFAULTED ON PGSER MACRO |
| | |1.. | | PSLBACK | "X'04" IF 1, BACKOUT=Y WAS CODED OR DEFAULTED ON PGSER MACRO |
| | |1. | | PSLL2G | "X'02" IF 1, LIMIT(2G) WAS CODED ON THE PGSER MACRO |
| 12 | (C) | SIGNED | 4 | PSLFINIS (0) | THIS IS THE END OF THE PSL |
| 12 | (C) | X'C' | 0 | PSLLEN | "PSLFINIS-PSL" LENGTH OF A PSL |

PSL Cross Reference

| Name | Hex Offset | Hex Value |
|----------|------------|-----------|
| PSL | 0 | |
| PSLANYW | B | 10 |
| PSLAST | 8 | 80 |
| PSLBACK | B | 4 |
| PSLCHAIN | 8 | 20 |
| PSLEND | 4 | |
| PSLFANYW | A | 3 |
| PSLFCTL | A | |
| PSLFFIX | A | 1 |
| PSLFFREE | A | 2 |
| PSLFINIS | C | |
| PSLFLGS1 | 8 | |
| PSLFLGS2 | B | |
| PSLFLOAD | A | 4 |
| PSLFOUT | A | 5 |
| PSLFPROT | A | 7 |
| PSLFRELS | A | 6 |
| PSLFUNC | A | |
| PSLFUNP | A | 8 |
| PSLKEPRL | B | 20 |
| PSLLEN | C | C |
| PSLL2G | B | 2 |
| PSLNULL | 8 | 40 |

| Name | Hex Offset | Hex Value |
|---------|------------|-----------|
| PSLONG | B | 8 |
| PSLRLSE | B | 40 |
| PSLRTN | 9 | |
| PSLSTRT | 0 | |

PVT Programming Interface information

Programming Interface information

PVT

INCLUDE ONLY

End of Programming Interface information

PVT Heading Information

Common Name: RSM Page Vector Table
Macro ID: IHAPVT
DSECT Name: PVT
Owning Component: Real Storage Manager (SC1CR)
Eye-Catcher ID: PVT
 Offset: 0
 Length: 4
Storage Attributes: Virtual Storage: Yes
 Subpool: R/O Nucleus
 Key: 0
Size: 1912 bytes
Created by: IARMP
Pointed to by: CVTPVTP field of the CVT data area
Serialization: None
Function: Information used internally by RSM

PVT Map

| Offsets | | | | | |
|---|------|------------|-----|------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | PVT | |
| Comment | | | | | |
| -- ADDRESSES OF EXTERNAL DATA FIELDS -- | | | | | |
| End of Comment | | | | | |
| 0 | (0) | CHARACTER | 1 | PVTID (4) | PVT Control Block Identifier |
| 4 | (4) | ADDRESS | 4 | PVTRIT | "V(IARMRRIT)" Address of the start of the RIT |
| 8 | (8) | ADDRESS | 4 | PVTPFTA | "V(IARMRPFT)" Address of PFT Address in RIT |
| 12 | (C) | ADDRESS | 4 | PVTPCNA | "V(IARMRPCN)" Address of data space PC numbr array |
| 16 | (10) | ADDRESS | 4 | PVTEXTPT | "V(PVTEXT)" Address of PVT Extension |
| 20 | (14) | ADDRESS | 4 | PVTRSH | "V(IARMPRSH)" Address of Recovery Refresh Table |
| 24 | (18) | ADDRESS | 4 | PVTESTA | "V(IARMREST)" Address of Extended Store Table - ESA only |
| 28 | (1C) | CHARACTER | 1 | (12) | Reserved area for additional data addresses |
| Comment | | | | | |
| -- ADDRESSES OF VDAC EXTERNAL ENTRY POINTS -- | | | | | |
| End of Comment | | | | | |
| 40 | (28) | ADDRESS | 4 | PVTVVVTP | "V(PVTVVVTAB)" Address of VDAC Vector Table |
| 44 | (2C) | ADDRESS | 4 | PVTKURPR | "V(IARKURPR)" Address of VDAC REPRIME Entry |
| 48 | (30) | ADDRESS | 4 | PVTKGRES | "V(IARKGRES)" Address of VDAC RESET Entry |
| 52 | (34) | ADDRESS | 4 | PVTQASC | "V(IARKQASC)" Address of VDAC ASSOCIATE Entry |
| 56 | (38) | ADDRESS | 4 | PVTKDIS | "V(IARKDIS)" Address of VDAC DISASSOCIATE Entry |
| 60 | (3C) | ADDRESS | 4 | PVTKCMIT | "V(IARKCMIT)" Address of VDAC COMMIT Entry |
| Comment | | | | | |
| -- ADDRESSES OF NON-VDAC EXTERNAL ENTRY POINTS -- | | | | | |
| End of Comment | | | | | |
| 64 | (40) | ADDRESS | 4 | PVTGIOCM | "V(IARGIOCM)" Address of General I/O Completion |
| 68 | (44) | ADDRESS | 4 | PVTUTRV | "V(IARUTRV)" Translate REAL-TO-VIRTUAL Routine |
| 72 | (48) | ADDRESS | 4 | PVTPSIB | "V(IARPSIV)" Paging Services- VSL Branch Entry Point |
| 76 | (4C) | ADDRESS | 4 | PVTXPRSB | "V(IARXPRSB)" Real Storage Buffer Routine |
| 80 | (50) | ADDRESS | 4 | PVTXIBAD | "V(IARXIBAD)" Bad Frame Routine |
| 84 | (54) | ADDRESS | 4 | PVTXCRMF | "V(IARXCRMF)" Frame counting service for RMF |

| Offsets | | | | | |
|---------|------|------------|-----|------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 88 | (58) | ADDRESS | 4 | PVTERCF | "V(IARERCF)" Storage Reconfiguration Rtn for Extended Store - ESA only |
| 92 | (5C) | ADDRESS | 4 | PVTXWVFC | "V(IARXWVFC)" Virtual Fetch data set creation - ESA only |
| 96 | (60) | ADDRESS | 4 | PVTXVFA | "V(IARXVFA)" Virtual Fetch Assign - ESA only |
| 100 | (64) | ADDRESS | 4 | PVTSSDEL | "V(IARSSDEL)" Delete secondary working set pages |

Comment

The following PAGE FIX/FREE Fast Path Entry Point addresses are all POINTER DEFINED:

End of Comment

| | | | | | |
|-----|------|-----------|---|----------------|--|
| 104 | (68) | ADDRESS | 4 | PVTPNL | "V(IARPNL)" PAGE FREE Fast Path - List Format |
| 108 | (6C) | ADDRESS | 4 | PVTPNR | "V(IARPNR)" PAGE FREE Fast Path - Register Format |
| 112 | (70) | ADDRESS | 4 | PVTPQLB | "V(IARPQLB)" PAGE FIX Fast Path - List Format |
| 116 | (74) | ADDRESS | 4 | PVTPQRB | "V(IARPQRB)" PAGE FIX Fast Path - Register Format |
| 120 | (78) | ADDRESS | 4 | PVTPQLNB | "V(IARPQLNB)" PAGE FIX Fast Path - List Format without BACKOUT |
| 124 | (7C) | ADDRESS | 4 | PVTPQRNB | "V(IARPQRNB)" PAGE FIX Fast Path - Register Format WITHOUT BACKOUT |
| 128 | (80) | ADDRESS | 4 | PVTXPLCK | "V(IARXPLCK)" Lock Interface in IARXP |
| 132 | (84) | ADDRESS | 4 | PVTXXFP | "V(IARXXFP)" External Interface Routine |
| 136 | (88) | ADDRESS | 4 | PVTUFP | "V(IARUFP)" Find Page |
| 140 | (8C) | ADDRESS | 4 | PVTCNTF | "V(IARXCNTF)" Counting Routine |
| 144 | (90) | ADDRESS | 4 | PVTUCNVT | "V(IARUCNVT)" Convert Routine |
| 148 | (94) | ADDRESS | 4 | PVTXRCF | "V(IARXRCF)" Storage Reconfiguration Routine for Real Storage |
| 152 | (98) | ADDRESS | 4 | PVTUALF | "V(IARUALF)" PFTE Manager- GETFRAME Routine |
| 156 | (9C) | ADDRESS | 4 | PVTUMVF | "V(IARUMVF)" PFTE Manager- MOVEFRAM Routine |
| 160 | (A0) | ADDRESS | 4 | PVTSIN | "V(IARSIN)" SWAP-IN Processor |
| 164 | (A4) | ADDRESS | 4 | PVTSOUT | "V(IARSOUT)" SWAP-OUT Processor |
| 168 | (A8) | ADDRESS | 4 | PVTVFRMN | "V(IARVFRMN)" VSM FREEMAIN Exit to RSM |
| 172 | (AC) | ADDRESS | 4 | PVTUINV | "V(IARUINV)" POINTER DEFINED address of PTLB Routine |
| 176 | (B0) | ADDRESS | 4 | PVTSURST | "V(IARSURST)" Swap Restart Entry Point |
| 180 | (B4) | ADDRESS | 4 | PVTEAEXT | "V(IAREAEXT)" MIGRATION Scheduler Entry Point - ESA only |
| 184 | (B8) | ADDRESS | 4 | PVTXWRLS | "V(IARXWRLS)" Virtual Fetch Release - ESA only |
| 188 | (BC) | ADDRESS | 4 | PVTDLCON | "V(IARDLCON)" DSPCALL CONVERT Interface Routine |
| 192 | (C0) | ADDRESS | 4 | PVTDZLIM | "V(IARDZLIM)" DSPLIMIT Service Routine |
| 196 | (C4) | ADDRESS | 4 | PVTXQVDC | "V(IARXQVDC)" VDAC Counting Routine |
| 200 | (C8) | ADDRESS | 4 | PVTCCDSL | "V(IARCCDSL)" DSPCALL DSPLIST service routine |
| 204 | (CC) | ADDRESS | 4 | PVTYLGRP | "V(IARYLGRP)" VIO Release Logical Group |
| 208 | (D0) | ADDRESS | 4 | PVTCQMVP | "V(IARCQMVP)" HSPSERV MVPG Service Routine |
| 212 | (D4) | ADDRESS | 4 | PVTCJCPY | "V(IARCJCPY)" SDUMP Copy Service Routine |
| 216 | (D8) | ADDRESS | 4 | PVTP3PFX | "V(IARP3PFX)" RSMPIN super fast pin entry point |
| 220 | (DC) | ADDRESS | 4 | PVTP3PFR | "V(IARP3PFR)" RSMPIN super fast unpin entry point |
| 224 | (E0) | ADDRESS | 4 | PVTPZFFR | "V(IARPZFFR)" RSMPIN fast pin/unpin/recover routine |
| 228 | (E4) | CHARACTER | 1 | (0) | Reserved space for Entry Points |
| 228 | (E4) | CHARACTER | 1 | PVTRCVTT (132) | - - Recovery Exit Vector Table - - |

Comment

- - ENTRY POINTS REQUIRED FOR S/370 COMPATIBILITY - -

End of Comment

| | | | | | |
|------|-------|-----------|---|--------------|--|
| 1896 | (768) | ADDRESS | 4 | PVTPPSIX | "V(IARPSIX)" PGFIX BRANCH ENTRY (R FORMAT) |
| 1900 | (76C) | ADDRESS | 4 | PVTPPSIY | "V(IARPSIY)" PGFIX BRANCH ENTRY (L FORMAT) |
| 1904 | (770) | ADDRESS | 4 | PVTPPSIZ | "V(IARPSIX)" PGFIX BRANCH ENTRY (R FORMAT) |
| 1908 | (774) | ADDRESS | 4 | PVTPPSIF | "V(IARPSIF)" PGFREE BRANCH ENTRY |
| 1912 | (778) | CHARACTER | 1 | PVTRIDXT (0) | - - Recovery ID Index Table - - |

PVT Cross Reference

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | PVTVVTAB | |
| 0 | (0) | SIGNED | 4 | (0) | Beginning of VDAC vector table on on word boundary |
| 0 | (0) | ADDRESS | 4 | | Reserved |
| 4 | (4) | ADDRESS | 4 | PVTLGRES | "V(IARLGRES)" Address of VDAC Dataspace RESET Entry Point |
| 8 | (8) | ADDRESS | 4 | PVTLQASC | "V(IARLQASC)" Address of VDAC Dataspace ASSOCIATE Entry Point |
| 12 | (C) | ADDRESS | 4 | PVTLDIS | "V(IARLDIS)" Address of VDAC Dataspace DISASSOCIATE Entry Point |
| 16 | (10) | ADDRESS | 4 | PVTLCMIT | "V(IARLCMIT)" Address of VDAC data space COMMIT Entry Point |
| 20 | (14) | ADDRESS | 4 | PVTLNCON | "V(IARLNCON)" Address of VDAC CONTROL Entry Point |
| 24 | (18) | ADDRESS | 4 | PVTKKCHL | "V(IARKKCHL)" Address of VDAC CHANGELIST Entry Point |
| 28 | (1C) | ADDRESS | 4 | PVTLOCHL | "V(IARLOCHL)" Address of VDAC Dataspace CHANGELIST Entry Point |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | PVTEXT | |
| 0 | (0) | SIGNED | 4 | (0) | Beginning of the PVT Extension |
| 0 | (0) | ADDRESS | 4 | | Length of a Data Space ASTE |
| 4 | (4) | ADDRESS | 4 | PVTHSCNV | "V(IARHSCNV)" Address of IARSSCNV (subspace) convert |
| 8 | (8) | ADDRESS | 4 | PVTYCFA | "V(IARYCFA)" Address of IARYCFA Subspace double frame interface entry point |
| 12 | (C) | ADDRESS | 4 | PVTCCDSW | "V(IARCCDSW)" DSPCALL DSPLISTW service routine |
| 16 | (10) | ADDRESS | 4 | PVTBRLKP | "V(IARBRLKP)" Address of LKPG entry point in IARBR |
| 20 | (14) | ADDRESS | 4 | PVTWTRV | "V(IARWTRV)" Address of RSA-to-VSA Convert Entry Point (branch entry) |
| 24 | (18) | ADDRESS | 4 | PVTIRSRV | "V(IARIRSRV)" Address of IARISRV (IARVSRV branch entry) |
| 28 | (1C) | ADDRESS | 4 | PVTRRCV | "V(IARRRC)" RSM recover router |
| 32 | (20) | ADDRESS | 4 | PVTSAXEC | "V(IARSAEXC)" Frame exchange routine |
| 36 | (24) | ADDRESS | 4 | PVTBRFCT | "V(IARBRFCT)" Address of IARBRFCT |

PVT Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| PVT | 0 | | PVTLCMIT | 10 | |
| PVTBRFCT | 24 | | PVTLDIS | C | |
| PVTBRLKP | 10 | | PVTLGRES | 4 | |
| PVTCCDSL | C8 | | PVTLNCON | 14 | |
| PVTCCDSW | C | | PVTLOCHL | 1C | |
| PVTCJCPY | D4 | | PVTLQASC | 8 | |
| PVTCQMVP | D0 | | PVTPCNA | C | |
| PVTDLCON | BC | | PVTPFTA | 8 | |
| PVTDZLIM | C0 | | PVTPNL | 68 | |
| PVTEAEXT | B4 | | PVTPNR | 6C | |
| PVTERCF | 58 | | PVTPPSIF | 774 | |
| PVTESTA | 18 | | PVTPPSIX | 768 | |
| PVTEXT | 0 | | PVTPPSIY | 76C | |
| PVTEXTPT | 10 | | PVTPPSIZ | 770 | |
| PVTGIOCM | 40 | | PVTPQLB | 70 | |
| PVTHSCNV | 4 | | PVTPQLNB | 78 | |
| PVTID | 0 | | PVTPQRB | 74 | |
| PVTIRSRV | 18 | | PVTPQRNB | 7C | |
| PVTKCMIT | 3C | | PVTPSIB | 48 | |
| PVTKDIS | 38 | | PVTPZFFR | E0 | |
| PVTKGRES | 30 | | PVTP3PFR | DC | |
| PVTKKCHL | 18 | | PVTP3PFX | D8 | |
| PVTKQASC | 34 | | PVTRCVTT | E4 | |
| PVKURPR | 2C | | PVTRIDXT | 778 | |

| Name | Hex Offset | Hex Value |
|----------|---------------|--------------|
| PVTRIT | 4 | |
| PVTRRCV | 1C | |
| PVTRSH | 14 | |
| PVTSAXC | 20 | |
| PVTSIN | A0 | |
| PVTSOUT | A4 | |
| PVTSSDEL | 64 | |
| PVTSURST | B0 | |
| PVTUALF | 98 | |
| PVTUCNVT | 90 | |
| PVTUFP | 88 | |
| PVTUINV | AC | |
| PVTUMVF | 9C | |
| PVTUTRV | 44 | |
| PVTVFRMN | A8 | |
| PVTVVTAB | 0 | |
| PVTVVTPT | 28 | |
| PVTWTRV | 14 | |
| PVTXCNTF | 8C | |
| PVTXCRMF | 54 | |
| PVXIBAD | 50 | |
| PVXPLCK | 80 | |
| PVXPRSB | 4C | |
| PVXQVDC | C4 | |
| PVXRCF | 94 | |
| PVXVFA | 60 | |
| PVXWRLS | B8 | |
| PVXWVFC | 5C | |
| PVXXFP | 84 | |
| PVYCFA | 8 | |
| PVYLGRP | CC | |

PXT Heading Information

Common Name: VSM Cell Pool Primary Extent
Macro ID: IGVPXT
DSECT Name: PXT
Owning Component: Virtual Storage Manager (SC1CH)
Eye-Catcher ID: None
Storage Attributes: Subpool: User supplied
 Key: User supplied
 Residency: User supplied
Size: 40 bytes
Created by: IGVCPLD
Pointed to by: PPDPXT
Serialization: Compare Double and Swap
 LOCAL/CML lock for local cell pools
 VSMPAG for pageable global cell pools
 VSMFIX for fixed global cell pools
Function: Describes the primary cell pool extent.

PXT Map

| Offsets | | | | | |
|---------|------|------------|-----|------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | * | PXT | |
| 0 | (0) | CHARACTER | 40 | PXTBASE | BASE PORTION OF PXT |
| 0 | (0) | CHARACTER | 24 | PXTHDR | USER SUPPLIED HEADER |
| 24 | (18) | CHARACTER | 8 | PXTCDSW | COMPARE DOUBLE AND SWAP DOUBLEWORD |
| 24 | (18) | SIGNED | 4 | PXTSYNC | SYNCRHONIZATION COUNT |
| 28 | (1C) | ADDRESS | 4 | PXTCPTR | PTR TO 1ST CELL IN POOL |
| 32 | (20) | ADDRESS | 4 | PXTPPD | POINTER TO PPD |
| 36 | (24) | ADDRESS | 4 | * | RSVD, FOR POOL ALIGNMENT |
| 40 | (28) | CHARACTER | * | PXTPOOL | CELLS OF POOL. Note that this is truly 8 bytes past this label when the pool is BNDRY=QWORD |

QCB Heading Information

Common Name: QUEUE CONTROL BLOCK
Macro ID: ISGQCB
DSECT Name: QCB
Owning Component: Global Resource Serialization (SCSDS)
Eye-Catcher ID: None
Storage Attributes: Subpool: 127 in the GRS private area
 Key: 0
 Residency: Above 16M line
Size: THE QCB IS DEFINED IN 3 SIZES AS INDICATED BY QCB SIZE1, 2 AND 3.
Created by: The ENQ/RESERVE processing routines (ISGGNQDQ, ISGGRP00, ISGWENQ) obtain the QCB from the GRS Storage Manager.
Pointed to by: QCBNQCB, QCBPQCB, QHTEFQCB, QHTELQCB, QELQCB
Serialization: LOCAL RESOURCE - THE CMS ENQ/DEQ CLASS LOCK
 GLOBAL RESOURCE - THE GRS LOCAL LOCK
Function: DESCRIBE A GRS RESOURCE.

QCB Map

| Offsets | | | | | |
|---------|------|------------|-----|------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | * | QCB | QUEUE CONTROL BLOCK |
| 0 | (0) | CHARACTER | 40 | QCBBASIC | QCB BASIC SECTION |
| 0 | (0) | ADDRESS | 4 | QCBNQCB | ADDRESS NEXT QCB ON SYNONYM CHAIN |
| 4 | (4) | ADDRESS | 4 | QCBPQCB | ADDRESS PREVIOUS QCB ON SYNONYM CHAIN |
| 8 | (8) | ADDRESS | 4 | QCBFQEL | ADDRESS FIRST QEL FOR THIS RESOURCE |
| 12 | (C) | ADDRESS | 4 | QCBLQEL | ADDRESS LAST QEL FOR THIS RESOURCE |
| 16 | (10) | ADDRESS | 4 | QCBQHTE | ADDRESS OF QUEUE HASH TABLE ENTRY FOR THIS RESOURCE |
| 20 | (14) | ADDRESS | 4 | QCBQCBS@ | Address of star-mode QCB extension (QCBS). Valid only in star-mode. |
| 24 | (18) | UNSIGNED | 2 | QCBASID | ASID OF REQUESTOR. VALID ONLY WHEN QCBSTEP=1 |
| 26 | (1A) | BITSTRING | 1 | QCBRFLGS | RESOURCE DESCRIPTION FLAGS |
| | | 1... | | QCBSYS | SCOPE OF SYSTEM |
| | | .1.. | | QCBSYSS | SCOPE OF SYSTEMS |
| | | ..1. | | QCBSTEP | SCOPE OF STEP |
| | | ...1 | | QCBGLOBL | GLOBAL RESOURCE INDICATOR |
| | | 1... | | QCBNOENQ | NO ENQS PERMITTED - SET BY FRR |
| | |1.. | | QCBPHLDR | THIS IS A PLACEHOLDER QCB. NOTE THAT THIS QCB DOES NOT DEFINE A RESOURCE REQUEST. |
| | |1. | | QCBQM | QUEUE MERGE - INDICATES RESOURCE HAS BEEN PROCESSED |
| | |1 | | QCBMASF | MASID-FLAG. IF 1, THE QEL-CHAIN OF THIS QCB HAS (OR ONCE HAD) A QEL WITH A NON-ZERO QELMASID FIELD. IF 0, QELMASID IS ZERO IN EVERY QEL ON THE QEL-CHAIN OF THIS QCB. |
| 27 | (1B) | BITSTRING | 1 | QCBFLGS2 | Second flag byte |
| | | 1... | | QCBSOC | Start-of-contention has been noted for this resource |
| | | .111 1111 | | * | Reserved |
| 28 | (1C) | UNSIGNED | 2 | QCBRNAML | LENGTH OF RNAME |
| 30 | (1E) | CHARACTER | 2 | QCBRRSV2 | RESERVED |
| 32 | (20) | CHARACTER | 8 | QCBQNAME | QNAME OF RESOURCE |
| 40 | (28) | CHARACTER | 0 | QCBEND | END OF FIXED SECTION |
| 40 | (28) | CHARACTER | * | QCBRNAME | RNAME OF RESOURCE (variable length, padded with zeroes to word boundary) |

QCB Constants

| Len | Type | Value | Name | Description |
|--|---------|-------|----------------|-----------------------------|
| Comment | | | | |
| THE FOLLOWING DEFINES THE 3 RNAME LENGTHS USED TO COMPUTE THE 3 QCB SIZES. NOTE THAT THE RNAME, BUT NOT THE RNAME LENGTH, IS MAINTAINED ON A WORD BOUNDARY WITHIN THE QCB. | | | | |
| End of Comment | | | | |
| 1 | DECIMAL | 24 | QCBRNSZ1 | RNAME LENGTH 24 |
| 1 | DECIMAL | 52 | QCBRNSZ2 | RNAME LENGTH 52 |
| 1 | DECIMAL | 44 | QCBRNS2A | RNAME LENGTH 44 |
| 2 | DECIMAL | 256 | QCBRNSZ3 | RNAME LENGTH 256 |
| Comment | | | | |
| THE FOLLOWING DEFINES THE 3 QCB SIZES | | | | |
| End of Comment | | | | |
| 1 | DECIMAL | 64 | QCBSIZE1 | Size 1 |
| 1 | DECIMAL | 92 | QCBSIZE2 | Size 2 |
| 1 | DECIMAL | 84 | QCBSIZ2A | Size 2A |
| 2 | DECIMAL | 296 | QCBSIZE3 | Size 3 |
| 4 | DECIMAL | 40 | QCB_KBASICSIZE | Length of QCB basic section |

QCB Cross Reference

| Name | Hex Offset | Hex Value |
|----------|------------|-----------|
| QCB | 0 | |
| QCBASID | 18 | |
| QCBBASIC | 0 | |
| QCBEND | 28 | |
| QCBFLGS2 | 1B | |
| QCBFQEL | 8 | |
| QCBGLOBL | 1A | 10 |
| QCBLQEL | C | |
| QCBMASF | 1A | 01 |
| QCBNOENQ | 1A | 08 |
| QCBNQCB | 0 | |
| QCBPHLDR | 1A | 04 |
| QCBPQCB | 4 | |
| QCBQCBS@ | 14 | |
| QCBQHTE | 10 | |
| QCBQM | 1A | 02 |
| QCBQNAME | 20 | |
| QCBRFLGS | 1A | |
| QCBRNAME | 28 | |
| QCBRNAML | 1C | |
| QCBRRSV2 | 1E | |
| QCBSOC | 1B | 80 |
| QCBSTEP | 1A | 20 |
| QCBSYS | 1A | 80 |
| QCBSYSS | 1A | 40 |

QDB Heading Information

Common Name: Queue Descriptor Block
Macro ID: IHAQDB
DSECT Name: QDB
Owning Component: Allocation (SC1B4)
Eye-Catcher ID: DSAB
 Offset: 0
 Length: 4
Storage Attributes: Subpool: 236 or 237
 Key: 1
 Residency: SIZE: 52 BYTES
Size: 52 BYTES
 NOTES: None
 FLAG FMID DATE ID COMMENT
 \$L1=ODSLM HBB7705 001031 PDOO: OPEN DATA SET LIMIT RELIEF
Created by: IEFAB4FC
 Since this is a generic queue header, it may also be created by other sources.
Pointed to by: JSCDSABQ field of the JSCB data area
 LCTDSABQ field of the LCT data area
 Since this is a generic queue header, it May also be pointed to by other sources.
Serialization:
Function: This is a generic queue header block, and contains first and last element pointers to the queue, as well as the number of elements in the queue, and other identifying information about the queue.

QDB Map

| Offsets | | | | | |
|---------|------|------------|-----|------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | QDB | |
| 0 | (0) | CHARACTER | 4 | QDBQDB | - ACRONYM IN EBCDIC -QDB- |
| 4 | (4) | BITSTRING | 2 | QDBATTR | - QUEUE ATTRIBUTES |
| | |1.. | | QDBELEMA | "X'04" AT LEAST ONE ELEMENT IS ABOVE THE LINE |
| 6 | (6) | SIGNED | 2 | QDBRV001 | - RESERVED |
| 8 | (8) | SIGNED | 4 | QDBNELMS | - NUMBER OF ELEMENTS ON QUEUE |
| 12 | (C) | ADDRESS | 4 | QDBFELMP | - POINTER TO FIRST ELEMENT |
| 16 | (10) | ADDRESS | 4 | QDBLELMP | - POINTER TO LAST ELEMENT |
| 20 | (14) | SIGNED | 2 | QDBFPTDS | - FORWARD POINTER DISPLACEMENT |
| 22 | (16) | SIGNED | 2 | QDBBPTDS | - BACKWARD POINTER DISPLACEMENT |
| 24 | (18) | SIGNED | 2 | QDBPRSZ | - PRIORITY FIELD SIZE |
| 26 | (1A) | SIGNED | 2 | QDBPRDS | - PRIORITY FIELD DISPLACEMENT |
| 28 | (1C) | ADDRESS | 4 | QDBRV002 | - RESERVED |
| 32 | (20) | SIGNED | 4 | QDBNELMA | - NUMBER OF ELEMENTS ON ABOVE OR BELOW THE LINE QUEUE |
| 36 | (24) | ADDRESS | 4 | QDBFELMA | - POINTER TO FIRST ABOVE OR BELOW THE LINE DSAB |
| 40 | (28) | ADDRESS | 4 | QDBLELMA | - POINTER TO LAST ABOVE OR BELOW THE LINE DSAB |
| 44 | (2C) | SIGNED | 2 | QDBFPTDA | - ABOVE OR BELOW THE LINE FORWARD POINTER DISPLACEMENT |
| 46 | (2E) | SIGNED | 2 | QDBBPTDA | - ABOVE OR BELOW THE LINE BACKWARD POINTER DISPLACEMENT |
| 48 | (30) | SIGNED | 4 | QDBECPID | ELEMENT CELL POOL ID |

QDB Cross Reference

QDB Cross Reference

| Name | Hex Offset | Hex Value |
|----------|---------------|--------------|
| QDB | 0 | |
| QDBATTR | 4 | |
| QDBBPTDA | 2E | |
| QDBBPTDS | 16 | |
| QDBECPID | 30 | |
| QDBELEMA | 4 | 4 |
| QDBFELMA | 24 | |
| QDBFELMP | C | |
| QDBFPTDA | 2C | |
| QDBFPTDS | 14 | |
| QDBLELMA | 28 | |
| QDBLELMP | 10 | |
| QDBNELMA | 20 | |
| QDBNELMS | 8 | |
| QDBPRDS | 1A | |
| QDBPRSZ | 18 | |
| QDBQDB | 0 | |
| QDBRV001 | 6 | |
| QDBRV002 | 1C | |

QEL Heading Information

Common Name: QUEUE ELEMENT
Macro ID: ISGQEL
DSECT Name: QEL
Owning Component: Global Resource Serialization (SCSDS)
Eye-Catcher ID: None
Storage Attributes: Subpool: 127 IN THE GRS PRIVATE AREA ABOVE 16-M LINE.
 Key: 0
Size: 56 bytes
Created by: THE ENQ/RESERVE PROCESSING ROUTINES (ISGGNQDQ, ISGGRP00) OBTAIN THE QEL FROM THE GRS STORAGE MANAGER.
Pointed to by: QCBFQEL, QCBLQEL, QELNQEL, QELPQEL, QELNQELQ, QELPQELQ, QELNSYN, QELPSYN, ASCBGQEL, ASCBLQEL, ASSBPQEL, AND SAHTEQEL
Serialization: LOCAL RESOURCE - THE CMS ENQ/DEQ CLASS LOCK.
 GLOBAL RESOURCE - THE GRS LOCAL LOCK.
Function: Describes a request for shared or exclusive control of a named resource.

QEL Map

| Offsets | | | | | |
|---------|------|------------|-----|------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 56 | QEL | QUEUE ELEMENT |
| 0 | (0) | ADDRESS | 4 | QELNQEL | ADDRESS OF NEXT QEL |
| 4 | (4) | ADDRESS | 4 | QELPQEL | ADDRESS OF PREVIOUS QEL |
| 8 | (8) | ADDRESS | 4 | QELNQELQ | NEXT QEL ON ASCB OR SYSID QUEUE |
| 12 | (C) | ADDRESS | 4 | QELPQELQ | PREVIOUS QEL ON ASCB OR SYSID QUEUE |
| 16 | (10) | BITSTRING | 8 | QELTOD | STCK time-of-day that ENQ request was made. Valid only in GRS star mode. |
| 16 | (10) | ADDRESS | 4 | QELNSYN | NEXT QEL ON SYSID SYNONYM CHAIN. Valid only in ring mode for requests originating on other systems. |
| 20 | (14) | ADDRESS | 4 | QELPSYN | PREVIOUS QEL ON SYSID SYNONYM CHAIN. Valid only in ring mode for requests originating on other systems. |
| 24 | (18) | ADDRESS | 4 | QELQXB | ADDRESS OF QXB |
| 28 | (1C) | ADDRESS | 4 | QELQCB | ADDRESS OF QCB |
| 32 | (20) | ADDRESS | 4 | QELSAHTE | ADDRESS OF SLOT IN SYSID/ASID HASH TABLE. VALID ONLY WHEN THE REQUEST ORIGINATED FROM A GRS SYSTEM OTHER THAN CURRENT |
| 36 | (24) | UNSIGNED | 4 | QELORIGN | ORIGIN OF REQUESTOR |
| 36 | (24) | UNSIGNED | 2 | QELSYSID | SYSTEM ID OF REQUESTOR |
| 38 | (26) | UNSIGNED | 2 | QELASID | ASID OF REQUESTOR |
| 40 | (28) | UNSIGNED | 2 | QELMASID | MASID VALUE SPECIFIED WITH ENQ/RESERVE THAT CREATED THIS QEL, OR ZERO. |
| 42 | (2A) | BITSTRING | 1 | QELQFLGS | THESE FLAGS PERTAIN TO THE QEL |
| | | 1... | | QELSHARE | WHEN 1, SHARED REQUEST WHEN 0, EXCLUSIVE REQUEST |
| | | .1.. | | QELMC | MC REQUEST |
| | | ..1. | | QELRESV | RESERVE REQUEST |
| | | ...1 | | QELRESVC | RESERVE CONVERTED TO GLOBAL ENQ |
| | | 1... | | QELAUTH | CALLER IS AUTHORIZED |
| | |1.. | | QELTCBFA | TCBFA ON WHEN QEL INITIALIZED |
| | |1. | | QELQMADQ | MASID DAMAGED-QEL FLAG. IF 1, THIS QEL WAS CREATED BY AN INVALID MASID-ENQ, OR THIS QEL PREVIOUSLY POINTED AT A MASID-TARGET QEL THAT WAS REMOVED BY AN INVALID DEQ. |

QEL Cross Reference

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|---|-----|--|--|
| Dec | Hex | | | | |
| | |1 | | QELQMATD | MASID/MTCB DEFERRED-STEAL FLAG. IF 1, THIS QEL WAS A MASID-TARGET WHEN ENQ-STEAL WAS NEEDED. STEAL MUST BE PERFORMED WHEN THE CORRESPONDING MASID-QEL IS REMOVED. |
| 43 | (2B) | BITSTRING 1... | 1 | QELLFLGS QELPOST | THESE FLAGS PERTAIN TO LIST REQUESTS The requestor has been given access to this resource. QXBWAITC should not be decremented for this QEL |
| | | .1.. .... ..1. | | QELECBF QELECBZ | THIS IS AN ECB REQUEST ECB-ADDRESS OF ZERO WAS SPECIFIED. QEL CAN BE DEQ-ED WHEN IT IS NOT IN FIRST-GROUP, BUT RB-POST MUST BE USED. |
| | | ...1 | | QELLERSV | EARLY-RESERVE FLAG. QEL WAS CREATED BY AN EARLY GLOBAL RESERVE THAT WAS CONVERTED TO A LOCAL RESERVE |
| | | 1... | | QELGQSIR | ISGQSCAN INFORMATION ROUTINE FLAG. IF 1, AN ISGQSCAN INFO ROUTINE EXISTS FOR THE ADDRESS SPACE SPECIFIED BY QELASID |
| | |1.. .... .1.. .... ...1 | | QELRNLNO QELFDTRY QELAFRES | NO RNL CHANGE 1 - FAST DEQ BEING ATTEMPTED AFFECTED RESOURCE |
| 44 | (2C) | ADDRESS | 4 | QELUCB | CONTAINS UCB ADDRESS WHEN QELRESV=1 |
| 48 | (30) | BITSTRING | 1 | QELFLGS3 | Third flag byte |
| | | 1... .... .1.. .... ..1. .... ...1 1.. .... .1.. .... .1.. .... ...1 | | QELOWNER QELSEHLD QELMC2E QELMTARG QELNOHLD QELUCBER QELWAITR * | The requestor owns the resource SYSEVENT-ENQHOLD has been issued for this QEL This QEL is a MASID convert- to-exclusive request This QEL is the target of a MASID-QEL Do not issue SYSEVENT-ENQHOLD for this QEL UCBSQC reaches max Waiting for a reserve to complete (SYNCHRES=YES) Reserved |
| 49 | (31) | CHARACTER | 3 | QELRSV01 | Reserved |
| 52 | (34) | ADDRESS | 4 | QELCQE | Pointer to CQE |
| 56 | (38) | CHARACTER | 0 | QELEND | END OF QEL |

QEL Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| QEL | 0 | | QELPSYN | 14 | |
| QELAFRES | 2B | 01 | QELQCB | 1C | |
| QELASID | 26 | | QELQFLGS | 2A | |
| QELAUTH | 2A | 08 | QELQMADQ | 2A | 02 |
| QELCQE | 34 | | QELQMATD | 2A | 01 |
| QELECBF | 2B | 40 | QELQXB | 18 | |
| QELECBZ | 2B | 20 | QELRESV | 2A | 20 |
| QELEND | 38 | | QELRESVC | 2A | 10 |
| QELFDTRY | 2B | 02 | QELRNLNO | 2B | 04 |
| QELFLGS3 | 30 | | QELRSV01 | 31 | |
| QELGQSIR | 2B | 08 | QELSAHTE | 20 | |
| QELLERSV | 2B | 10 | QELSEHLD | 30 | 40 |
| QELLFLGS | 2B | | QELSHARE | 2A | 80 |
| QELMASID | 28 | | QELSYSID | 24 | |
| QELMC | 2A | 40 | QELTCBFA | 2A | 04 |
| QELMC2E | 30 | 20 | QELTOD | 10 | |
| QELMTARG | 30 | 10 | QELUCB | 2C | |
| QELNOHLD | 30 | 08 | QELUCBER | 30 | 04 |
| QELNQEL | 0 | | QELWAITR | 30 | 02 |
| QELNQELQ | 8 | | | | |
| QELNSYN | 10 | | | | |
| QELORIGN | 24 | | | | |
| QELOWNER | 30 | 80 | | | |
| QELPOST | 2B | 80 | | | |
| QELPQEL | 4 | | | | |
| QELPQELQ | C | | | | |

QHT Heading Information

| | |
|----------------------------|---|
| Common Name: | QUEUE HASH TABLE |
| Macro ID: | ISGQHT |
| DSECT Name: | QHT |
| Owning Component: | QHTENT |
| Eye-Catcher ID: | GLOBAL RESOURCE SERIALIZATION (SCSDS) LQHT, GQHT, SGHT, QHSI, QHSE, QHRC Offset: 0 Length: 4 |
| Storage Attributes: | Subpool: 229 for the LQHT, GQHT, and SGHT 245 for the RNL Search QHT Key: 0 |
| Size: | LQHT = 32768 bytes GQHT = 32768 bytes SGHT = 32768 bytes RNL Search QHTs = 32768 bytes |
| Created by: | ISGNCBIM creates the LQHT in SQA. ISGNASIM recreates the LQHT in the GRS address space. ISGGRNLP creates the RNL Search QHTs in ESQA. For Ring Mode: ISGNASIM creates the GQHT in the GRS address space. For Star Mode: ISGNASIM creates the SGHT in the GRS address space. |
| Pointed to by: | LQHT - GVTXLQHT GQHT - GVTXGQHT SGHT - GVTX_SGHT |
| Serialization: | LQHT - CMS ENQ/DEQ lock GQHT - GRS local lock SGHT - GRS local lock RNL SEARCH QHTs - GRS local lock |

QHT Map

Function: THERE ARE FOUR TYPES OF QUEUE HASH TABLES:
IN RING MODE
- EACH SYSTEM HAS A GLOBAL QUEUE HASH TABLE (GQHT) THAT CONTAINS ALL GLOBAL RESOURCE REQUESTS ISSUED ACROSS THE COMPLEX.
IN STAR MODE
- EACH SYSTEM HAS A SYSTEM GLOBAL HASH TABLE (SGHT) THAT CONTAINS ALL GLOBAL RESOURCE REQUESTS THAT WERE ORIGINATED BY THAT SYSTEM.
IN BOTH MODES.....
- EACH SYSTEM HAS A LOCAL QUEUE HASH TABLE (LQHT) THAT CONTAINS ALL LOCAL RESOURCE REQUESTS THAT HAVE BEEN ISSUED ON THE SYSTEM.
- EACH SYSTEM HAS 3 RNL-SEARCH HASH TABLES FOR THE SYSTEM INCLUSION RNL, THE SYSTEM EXCLUSION RNL, AND THE RESERVE CONVERSION RNL.
IN THE CASE OF THE LQHT, GQHT, AND SSHT, EACH HASH TABLE ENTRY IS A DOUBLE HEADED QUEUE OF QCB'S. IN THE CASE OF THE RNL-SEARCH QHT'S, EACH HASH TABLE ENTRY IS A SINGLE HEADED QUEUE OF RNL-SEARCH ELEMENT SPECIFIC SYNONYM CHAIN ENTRIES (RSES'S).

QHT Map

| Offsets | | | | | |
|---------|-----|------------|-----|-------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | * | QHT | QUEUE HASH TABLE |
| 0 | (0) | CHARACTER | 8 | QHTHDR | QUEUE HASH TABLE HEADER |
| 0 | (0) | CHARACTER | 4 | QHTID | CONTROL BLOCK ACRONYM (GLOBAL=GQHT,LOCAL=LQHT, SYSTEM GLOBAL=SGHT, RNL-SEARCH=QHSI, QHSE, OR QHRC) |
| 4 | (4) | UNSIGNED | 2 | QHTNENT | NUMBER OF ENTRIES IN TABLE |
| 6 | (6) | CHARACTER | 2 | * | RESERVED |
| 8 | (8) | CHARACTER | 8 | QHTENTS (*) | QUEUE HASH TABLE ENTRIES |

| Offsets | | | | | |
|---------|-----|------------|-----|------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 8 | QHTENT | QUEUE HASH TABLE ENTRY |
| 0 | (0) | ADDRESS | 4 | QHTEFQCB | ADDRESS OF THE FIRST QCB ON THE SYNONYM CHAIN, THE HIGH ORDER BIT INDICATES IF THERE IS QUEUE DAMAGE |
| | | 1... | | QHTEQDMG | 0 - NO QUEUE DAMAGE IN THIS SYNONYM CHAIN. 1 - QUEUE DAMAGE IN THIS SYNONYM CHAIN. ENQS NOT ALLOWED |
| 0 | (0) | BITSTRING | 3 | * | CAN NOT BE USED, THIS IS THE ADDRESS PORTION OF THE POINTER |
| 4 | (4) | ADDRESS | 4 | QHTELQCB | ADDRESS OF LAST QCB ON SYNONYM CHAIN |
| 4 | (4) | UNSIGNED | 2 | QHTECRSE | COUNT OF RSES ENTRIES ON THIS SYNONYM CHAIN |

QHT Constants

| Len | Type | Value | Name | Description |
|---|---------|-------|----------|---|
| Comment | | | | |
| THE FOLLOWING CONSTANTS ARE TO BE USED ONLY BY GRS INITIALIZATION MODULES. | | | | |
| End of Comment | | | | |
| 2 | DECIMAL | 4095 | QHTGNENT | NUMBER OF ENTRIES IN THE GLOBAL QUEUE HASH TABLE, THE SYSTEM GLOBAL HASH TABLE, AND THE CENTRAL QUEUE HASH TABLE IN THE GRS ADDRESS SPACE. |
| 2 | DECIMAL | 4095 | QHTLNENT | NUMBER OF ENTRIES IN THE LOCAL QUEUE HASH TABLE WHILE IN GRS ADDRESS SPACE |
| 2 | DECIMAL | 2 | QHTINENT | NUMBER OF ENTRIES IN THE LOCAL QUEUE HASH TABLE WHILE IN SQA |
| 2 | DECIMAL | 4095 | QHTRNENT | NUMBER OF ENTRIES IN THE RNL-SEARCH QUEUE HASH TABLE |

QHT Cross Reference

| Name | Hex Offset | Hex Value |
|----------|---------------|--------------|
| QHT | 0 | |
| QHTECRSE | 4 | |
| QHTEFQCB | 0 | |
| QHTELQCB | 4 | |
| QHTENT | 0 | |
| QHTENTS | 8 | |
| QHTEQDMG | 0 | 80 |
| QHTHDR | 0 | |
| QHTID | 0 | |
| QHTNENT | 4 | |

QIO Heading Information

Common Name: QMNGRIO Work Area
Macro ID: IHAQIO
DSECT Name: IHAQIO
Owning Component: Scheduler Work Area Manager (SC1B5)
Eye-Catcher ID: None
Subpool and Key: Any subpool and key
Size: 256 bytes
Created by: Routines that invoke QMNGRIO
Pointed to by: QMIOP
Function: Contains the QMPA.

QIO Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|--------------|-------------------------------------|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | IHAQIO | |
| 0 | (0) | CHARACTER | 36 | QIOQMPA | - Q MGR PARAMETER AREA |
| 36 | (24) | CHARACTER | 76 | QIOECIOB (0) | ECB/IOB SPACE |
| 36 | (24) | SIGNED | 4 | QIOECB | - EVENT CONTROL BLOCK |
| 40 | (28) | DBL WORD | 8 | QIOIOB (0) | - INPUT/OUTPUT BLOCK |
| 40 | (28) | CHARACTER | 2 | QIOIFLGS | - IOB FLAG BYTES |
| 42 | (2A) | CHARACTER | 2 | QIOISNS | - IOB SENSE BYTES |
| 44 | (2C) | SIGNED | 4 | QIOIECB (0) | - |
| 44 | (2C) | CHARACTER | 1 | QIOICC | - IOB ECB COMPLETION CODE |
| 45 | (2D) | ADDRESS | 3 | QIOIECBA | - IOB ECB ADDRESS |
| 48 | (30) | CHARACTER | 1 | QIOIFLG3 | - IOB FLAG BYTE 3 |
| 49 | (31) | CHARACTER | 7 | QIOICSW | - SEVEN LOW ORDER BYTES OF LAST CSW |
| 56 | (38) | SIGNED | 4 | QIOIST (0) | - |
| 56 | (38) | CHARACTER | 1 | QIOISIO | - SIO CONDITION CODE |
| 57 | (39) | ADDRESS | 3 | QIOISTR | - CCW CHAIN POINTER |
| 60 | (3C) | SIGNED | 4 | QIOIDCB (0) | - |
| 60 | (3C) | CHARACTER | 1 | QIOIRSD | - |
| 61 | (3D) | ADDRESS | 3 | QIOIDCBA | - IOB DCB ADDRESS |
| 64 | (40) | CHARACTER | 8 | QIOIREST | - SPACE TO IOB END |
| 72 | (48) | CHARACTER | 8 | QIOISEEK | - SEEK/SEARCH MBBCCHHR |
| 80 | (50) | DBL WORD | 8 | QIOISET (0) | - SET SECTOR CCW |
| 80 | (50) | CHARACTER | 1 | QIOISETO | - SET SECTOR OP CODE |
| 81 | (51) | ADDRESS | 3 | QIOISETA | - SET SECTOR DATA ADDRESS |
| 84 | (54) | CHARACTER | 1 | QIOISETF | - SET SECTOR FLAGS |
| 85 | (55) | CHARACTER | 1 | QIOISETR | - SET SECTOR RESERVED |
| 86 | (56) | SIGNED | 2 | QIOISETL | - SET SECTOR LENGTH |
| 88 | (58) | DBL WORD | 8 | QIOISCH (0) | - SEARCH CCW |
| 88 | (58) | CHARACTER | 1 | QIOISCHO | - SEARCH OP CODE |
| 89 | (59) | ADDRESS | 3 | QIOISCHA | - SEARCH DATA ADDRESS |
| 92 | (5C) | CHARACTER | 1 | QIOISCHF | - SEARCH FLAGS |
| 93 | (5D) | CHARACTER | 1 | QIOISCHR | - SEARCH RESERVED |
| 94 | (5E) | SIGNED | 2 | QIOISCHL | - SEARCH LENGTH |
| 96 | (60) | DBL WORD | 8 | QIOITIC (0) | - TIC CCW |
| 96 | (60) | CHARACTER | 1 | QIOITICO | - TIC OP CODE |
| 97 | (61) | ADDRESS | 3 | QIOITICA | - TIC DATA ADDRESS |
| 100 | (64) | CHARACTER | 1 | QIOITICF | - TIC FLAGS |
| 101 | (65) | CHARACTER | 1 | QIOITICR | - TIC RESERVED |
| 102 | (66) | SIGNED | 2 | QIOITICL | - TIC LENGTH |
| 104 | (68) | DBL WORD | 8 | QIOIO (0) | - I/O CCW |
| 104 | (68) | CHARACTER | 1 | QIOIOO | - I/O OP CODE |
| 105 | (69) | ADDRESS | 3 | QIOIOA | - I/O DATA ADDRESS |
| 108 | (6C) | CHARACTER | 1 | QIOIOF | - I/O FLAGS |
| 109 | (6D) | CHARACTER | 1 | QIOIOR | - I/O RESERVED |
| 110 | (6E) | SIGNED | 2 | QIOIOL | - I/O LENGTH |

QIO Cross Reference

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|--------------|-----------------------------------|
| Dec | Hex | | | | |
| 112 | (70) | SIGNED | 4 | QIOJOB (0) | - QMPA JOB INFO LIST |
| 112 | (70) | SIGNED | 4 | QIOFILL1 | - FULL WORK OF ZEROS |
| 116 | (74) | ADDRESS | 4 | QIONAMEA | - POINTER TO JOB NAME |
| 120 | (78) | ADDRESS | 4 | QIOSWADS | - POINTER TO SWADS DCB |
| 124 | (7C) | SIGNED | 4 | QIOPREXP (0) | - QMPA EXTERNAL PARM AREA PREFIX |
| 124 | (7C) | SIGNED | 2 | QIOFILL2 | - |
| 126 | (7E) | SIGNED | 2 | QIORECL | - RECORD LENGTH |
| 128 | (80) | SIGNED | 4 | QIOXPA (0) | - QMPA EXTERNAL PARM AREA |
| 128 | (80) | ADDRESS | 4 | QIOCOREA | - IN-CORE ADDRESS OF RECORD |
| 132 | (84) | CHARACTER | 4 | QIOTTR0 | - RELATIVE DISK ADDRESS OF RECORD |
| 136 | (88) | CHARACTER | 120 | QIOQMWRK | WORK SPACE FOR QUEUE MANAGER |

QIO Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| IHAQIO | 0 | | QIOPREXP | 7C | |
| QIOCOREA | 80 | | QIOQMPA | 0 | |
| QIOECB | 24 | | QIOQMWRK | 88 | |
| QIOECIOB | 24 | | QIORECL | 7E | |
| QIOFILL1 | 70 | | QIOSWADS | 78 | |
| QIOFILL2 | 7C | | QIOTTR0 | 84 | |
| QIOICC | 2C | | QIOXPA | 80 | |
| QIOICSW | 31 | | | | |
| QIOIDCB | 3C | | | | |
| QIOIDCBA | 3D | | | | |
| QIOIECB | 2C | | | | |
| QIOIECBA | 2D | | | | |
| QIOIFLGS | 28 | | | | |
| QIOIFLG3 | 30 | | | | |
| QIOIO | 68 | | | | |
| QIOIOA | 69 | | | | |
| QIOIOB | 28 | | | | |
| QIOIOF | 6C | | | | |
| QIOIOL | 6E | | | | |
| QIOIOO | 68 | | | | |
| QIOIOR | 6D | | | | |
| QIOIREST | 40 | | | | |
| QIOIRSVD | 3C | | | | |
| QIOISCH | 58 | | | | |
| QIOISCHA | 59 | | | | |
| QIOISCHF | 5C | | | | |
| QIOISCHL | 5E | | | | |
| QIOISCHO | 58 | | | | |
| QIOISCHR | 5D | | | | |
| QIOISEEK | 48 | | | | |
| QIOISET | 50 | | | | |
| QIOISETA | 51 | | | | |
| QIOISETF | 54 | | | | |
| QIOISETL | 56 | | | | |
| QIOISETO | 50 | | | | |
| QIOISETR | 55 | | | | |
| QIOISIO | 38 | | | | |
| QIOISNS | 2A | | | | |
| QIOIST | 38 | | | | |
| QIOISTR | 39 | | | | |
| QIOITIC | 60 | | | | |
| QIOITICA | 61 | | | | |
| QIOITICF | 64 | | | | |
| QIOITICL | 66 | | | | |
| QIOITICO | 60 | | | | |
| QIOITICR | 65 | | | | |
| QIOJOB | 70 | | | | |
| QIONAMEA | 74 | | | | |

QMIDS Programming Interface information

Programming Interface information

QMIDS

End of Programming Interface information

QMIDS Heading Information

Common Name: Constants for SWA block IDs and acronyms
Macro ID: IEFQMIDS
DSECT Name: N/A
Owning Component: SWA Manager (SC1B5)
Eye-Catcher ID: N/A
 Offset: N/A
 Length: N/A
Storage Attributes: Subpool: N/A
 Key: N/A
 Residency: N/A
Size: N/A
 FREQUENCY = N/A
Created by: N/A
Pointed to by: N/A
Serialization: N/A
Function: Provides constants for SWA block IDs and acronyms

QMIDS Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|--------------|-----|------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 0 | | |
|  |  | .... .... |  | SWJCTID | "X'00" JOB CONTROL TABLE (JCT) BLOCK ID |
| | |1 | | SWACTID | "X'01" ACCOUNT CONTROL TABLE (ACT) BLOCK ID |
| | |1. | | SWSCTID | "X'02" STEP CONTROL TABLE (SCT) BLOCK ID |
| | |11 | | SWSIOTID | "X'03" STEP INPUT/OUTPUT TABLE (SIOT) BLOCK ID |
| | |1.. | | SWSIOXID | "X'04" SIOT EXTENSION (SIOX) BLOCK ID |
| | |111 | | SWDSNTID | "X'07" DATA SET NAMES TABLE (DSNT) BLOCK ID |
| | |1.. | | SWPOTID | "X'0A" PROCEDURE OVERRIDE TABLE (POT) BLOCK ID |
| | |11.. | | SWSCTXID | "X'0C" STEP CONTROL TABLE EXT (SCTX) BLOCK ID |
| | |1111 | | SWDSENID | "X'0F" DATA SET ENQUEUE TABLE (DSEN) BLOCK ID |
| | | ...1 ..11 | | SWJMRID | "X'1B" JOB MANAGEMENT RECORD (JMR) BLOCK ID |
| | | ...1 ..1.. | | SWJFCBID | "X'1C" JOB FILE CONTROL BLOCK (JFCB) ID |
| | | ...1 ..1.. | | SWJFCXID | "X'1D" JOB FILE CONTROL BLOCK EXT (JFCX) ID |
| | | ..1. | | SWPDIDID | "X'20" |
| | | ..1. ...1 | | SWPDIBID | "X'21" PASSED DATASET INFORMATION BLOCK (PDIB) ID |
| | | ..1. ...1. | | SWPDIQID | "X'22" |
| | | ..1. ...11 | | SWGDGNID | "X'23" GDG NAMES TABLE (GDGN) BLOCK ID |
| | | ..1. ..1.. | | SWIWABID | "X'25" INTERPRETER WORK AREA BLOCK (IWAB) ID |
| | | ..1. ...11. | | SWVUTID | "X'26" VOLUME UNLOAD TABLE (VUT) BLOCK ID |
| | | ..1. ...111 | | SWDDNTID | "X'27" DDNAMES TABLE (DDNT) BLOCK ID |
| | | ..1. ...1... | | SWAMPXID | "X'28" AMP KEYWORD EXTENSION (AMPX) BLOCK ID |
| | | ..1. ...1.. | | SWJFCEID | "X'29" JOB FILE CONTROL BLOCK EXT (JFCE) ID |
| | | ..11 | | SWJCTXID | "X'30" JOB CONTROL TABLE EXT (JCTX) BLOCK ID |
| | | ..11 ...1 | | SWSSWAID | "X'31" SUBSYSTEM WORKAREA (SSWA) BLOCK ID |
| | | ..11 ...1. | | SWSWBID | "X'32" SCHEDULER WORK BLOCK (SWB) BLOCK ID |
| | | ..11 ...1.. | | SWSIOTBL | "X'35" STEP INPUT/OUTPUT TABLE (SIOT BELOW) BLOCK ID |
| | | ..11 ..11. | | SWJFCBBL | "X'36" JOB FILE CONTROL BLOCK (JFCB BELOW) BLOCK ID |
| | | ..11 ...111 | | SWJFCEBL | "X'37" JOB FILE CONTROL BLOCK EXT (JFCE BELOW) BLOCK ID |
| | | ..11 ...1... | | SWIFBID | "X'38" IF RELATIONAL (IFB) BLOCK ID |

QMIDS Cross Reference

| Name | Hex Offset | Hex Value |
|-------------|-----------------------|----------------------|
| SWACTID | 0 | 1 |
| SWAMPXID | 0 | 28 |
| SWDDNTID | 0 | 27 |
| SWDSENID | 0 | F |
| SWDSNTID | 0 | 7 |
| SWGDNID | 0 | 23 |
| SWIFBID | 0 | 38 |
| SWIWABID | 0 | 25 |
| SWJCTID | 0 | 0 |
| SWJCTXID | 0 | 30 |
| SWJFCBBL | 0 | 36 |
| SWJFCBID | 0 | 1C |
| SWJFCEBL | 0 | 37 |
| SWJFCEID | 0 | 29 |
| SWJFCXID | 0 | 1D |
| SWJMRID | 0 | 1B |
| SWPDIBID | 0 | 21 |
| SWPDIDID | 0 | 20 |
| SWPDIQID | 0 | 22 |
| SWPOTID | 0 | A |
| WSCTID | 0 | 2 |
| WSCTXID | 0 | C |
| WSIOTBL | 0 | 35 |
| WSIOTID | 0 | 3 |
| WSIOXID | 0 | 4 |
| SWSSWAID | 0 | 31 |
| SWSWBID | 0 | 32 |
| SWVUTID | 0 | 26 |

QMPA Heading Information

Common Name: SWA MANAGER PARAMETER AREA
Macro ID: N/A
DSECT Name: N/A
Owning Component: N/A
Eye-Catcher ID: N/A
 Offset: N/A
 Length: N/A
Storage Attributes: Main Storage: N/A
 Virtual Storage: N/A
 Auxiliary Storage: N/A
 Subpool: N/A
 Key: N/A
 Data Space: N/A
 Residency: N/A
Size: N/A
Created by: N/A
Pointed to by: N/A
Serialization: N/A
Function: PROVIDES MAPPING OF SWA MANAGER PARAMETER AREA

QMPA Map

| Offsets | | | | | |
|---------|------|------------|-----|------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | IOPARAMS | |
| 0 | (0) | CHARACTER | 4 | QMNAM | RESERVED |
| 0 | (0) | X'0' | 0 | QMCAN | "QMNAM" RESERVED |
| 4 | (4) | CHARACTER | 2 | QMVERS | VERSION NUMBER |
| 4 | (4) | X'2' | 0 | QMCURVER | "2" QMPA VERSION 2 |
| 6 | (6) | CHARACTER | 2 | QMLGTH | QMPA LENGTH |
| 8 | (8) | CHARACTER | 1 | QMPOP | FUNCTION CODE PARAMETER FUNCTION CODE VALUES |
| 8 | (8) | X'1' | 0 | QMASGN | "1" ASSIGN |
| 8 | (8) | X'0' | 0 | QMASGS | "0" ASSIGN/START |
| 8 | (8) | X'2' | 0 | QMWRTA | "2" WRITE AND ASSIGN |
| 8 | (8) | X'3' | 0 | QMWRTA | "3" WRITE |
| 8 | (8) | X'4' | 0 | QMREAD | "4" READ |
| 8 | (8) | X'5' | 0 | QMREDALL | "5" READALL/MOVE |
| 8 | (8) | X'6' | 0 | QMWRTALL | "6" WRITEALL/MOVE |
| 8 | (8) | X'7' | 0 | QMDTYP | "7" RESERVED |
| 8 | (8) | X'8' | 0 | QMDELE | "8" DELETE |
| 9 | (9) | CHARACTER | 2 | QMFLT | RESERVED |
| 11 | (B) | CHARACTER | 1 | QMTST | RESERVED |
| 12 | (C) | CHARACTER | 2 | QMTLN | RESERVED |
| 14 | (E) | CHARACTER | 1 | QMNOT | RESERVED |
| 15 | (F) | CHARACTER | 1 | QMTYP | RESERVED |
| 16 | (10) | CHARACTER | 1 | QMSTA | JOB STATUS BYTE |
| | | 1... | | QMACLEX | "X'80" PASSING 4-BYTE EPA ADDRESS |
| | | .1.. | | QMEPAX | "X'40" PASSING 16 BYTE EPAS |
| | | ...1. | | QMSJNL | "X'20" IF SET TO ONE, JOURNAL BLOCKS |
| | | ...1 | | QMCONDGM | "X'10" IF SET TO ONE, DO COND. GETMAIN |
| | | 1... | | QMBLDVAT | "X'08" IF SET TO ONE, BUILD VAT TABLE |
| 17 | (11) | CHARACTER | 1 | QMPRI | RESERVED |
| 18 | (12) | CHARACTER | 2 | QMLNK | RESERVED |
| 20 | (14) | SIGNED | 4 | QMPACLX | 4-BYTE PTR TO EXTERNAL PARAMETER LIST |
| 24 | (18) | SIGNED | 4 | QMADD | ADDRESS OF ADDRESS TABLE (QMAT) |
| 28 | (1C) | SIGNED | 4 | QMSTO | ADDRESS OF STORAGE TABLE (QMST) |
| 32 | (20) | CHARACTER | 4 | QMPCL | PTR TO EXTRN PARM LIST |

QMPA Cross Reference

| Offsets | | | | | |
|---------|------|------------|-----|------------|------------------------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 32 | (20) | X'20' | 0 | QMPCM | "QMPCL" NO. OF RCRDS TO ASSIGN |
| 32 | (20) | X'20' | 0 | QMPNC | "QMPCL" NO. OF RCRDS TO READ/WRITE |
| 32 | (20) | X'21' | 0 | QMPACL | "QMPCL+1" PTR TO EXTRN PARM LIST |

Comment

THE FOLLOWING FIELD NAMES ARE USED ONLY FOR SWA FUNCTIONS

End of Comment

| | | | | | |
|----|-----|-----------|---|--------|---------------------------|
| 0 | (0) | CHARACTER | 1 | QMSWSP | SWA SUBPOOL NUMBER |
| 12 | (C) | SIGNED | 4 | QMRBN | BLOCK NUMBER FOR THIS JOB |

QMPA Cross Reference

| Name | Hex Offset | Hex Value |
|----------|------------|-----------|
| IOPARAMS | 0 | |
| QMACLEX | 10 | 80 |
| QMADD | 18 | |
| QMASGN | 8 | 1 |
| QMASGS | 8 | 0 |
| QMBLDVAT | 10 | 8 |
| QMCAN | 0 | 0 |
| QMCONDGM | 10 | 10 |
| QMCURVER | 4 | 2 |
| QMDELE | 8 | 8 |
| QMDTYP | 8 | 7 |
| QMEPAX | 10 | 40 |
| QMFLT | 9 | |
| QMLGTH | 6 | |
| QMLNK | 12 | |
| QMNAM | 0 | |
| QMNOT | E | |
| QMPACL | 20 | 21 |
| QMPACLX | 14 | |
| QMPCL | 20 | |
| QMPCM | 20 | 20 |
| QMPNC | 20 | 20 |
| QMPOP | 8 | |
| QMPRI | 11 | |
| QMRBN | C | |
| QMRREAD | 8 | 4 |
| QMRDALL | 8 | 5 |
| QMSJNL | 10 | 20 |
| QMSTA | 10 | |
| QMSTO | 1C | |
| QMSWSP | 0 | |
| QMTLN | C | |
| QMTPY | F | |
| QMTST | B | |
| QMVERS | 4 | |
| QMWRTA | 8 | 2 |
| QMWRTALL | 8 | 6 |
| QMW RTE | 8 | 3 |

QSRCD Heading Information

Common Name: ASM Quick Start Record
Macro ID: ILRQSRCD
DSECT Name: QSR
Owning Component: Auxiliary Storage Manager (SC1CW)
Eye-Catcher ID: QSRECORD
 Offset: 0
 Length: 8
Storage Attributes: Virtual Storage: YES
 Subpool: 245
 Key: 0
 Data Space: NO
 Residency: Above 16 Megabytes virtual
Size: 8192 bytes
Created by: ILRASRIM
Pointed to by: n/a
Serialization: The QSR is serialized via ENQ and DEQ (qname=SYSZPGAD,rname=PAGEADD) when used by ILRPGEXP.
 No serialization during initialization.
Function: Contains all the information necessary to rebuild the Quick Startable LPA (PLPA) on a quick or warm start IPL. The QSR is used by the ASM RIM and QSR initialization routines. The RIM allocates the QSR on cold starts, and QSR initialization builds the QSR once PLPA has been loaded. The RIM reads the QSR on quick/warm starts. The QSR entries contain pointers to XQSRs (ILRXQSRDs) that contain the information necessary to rebuild the external page table entries for PLPA. The XQSRs are written to the PLPA data set.

QSRCD Map

| Offsets | | | | | |
|---------|------|------------|------|------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 8192 | QSR | Quick Start Record |
| 0 | (0) | CHARACTER | 192 | QSRHDR | QSR header |
| 0 | (0) | CHARACTER | 8 | QSRIDNT | Control block identifier, set to C'QSRECORD' |
| 8 | (8) | SIGNED | 4 | QSRVMDI | Hash value for PLPA directory. This address must be on a 4096 byte boundary |
| 12 | (C) | ADDRESS | 4 | QSRPLPAS | Low virtual address -- start address of PLPA. |
| 16 | (10) | ADDRESS | 4 | QSRPLPAE | Address of first byte beyond top (end) of PLPA. |
| 20 | (14) | BITSTRING | 1 | QSRFLAGS | QSR flag byte |
| | | 1... .. | | QSRPLPAF | PLPA data set full flag. 1 = PLPA became full during system initialization, 0 = PLPA not full yet |
| | | .1... .. | | QSRCOMMF | Common data full flag. 1 = Common data set became full during system initialization, 0 = Common data set not full yet |
| | | ..11 1111 | | * | Reserved |
| 21 | (15) | CHARACTER | 3 | * | Reserved |
| 24 | (18) | CHARACTER | 8 | QSRSYNCH | Time stamp for QSR record |
| 32 | (20) | ADDRESS | 4 | QSRXQSR | XQSR pointer |
| 36 | (24) | SIGNED | 4 | QSRXNUM | Number of XQSRs for PLPA |
| 40 | (28) | CHARACTER | 8 | QSRPRODI | FMID for the release that wrote this QSR record |
| 48 | (30) | CHARACTER | 144 | QSRRSV | Reserved |

QSRCD Cross Reference

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|------|------------|---|
| Dec | Hex | | | | |
| 192 | (C0) | CHARACTER | 8000 | QSRMAP | 8000-byte map of PLPA XQSR LSIDs, made up of 4-byte entries |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 4 | QSRENTY | QSR entry containing LSIDs for PLPA page. The entries are built in ascending order of virtual address, with each entry containing one LSID. The first zero entry indicates the end of the entries in use. |
| 0 | (0) | SIGNED | 4 | QSRLSID | Logical slot ID for PLPA data set copy of PLPA XQSR |
| 0 | (0) | CHARACTER | 1 | QSRPTNN | PART number portion of LSID, identifying page data set |
| 1 | (1) | CHARACTER | 3 | QSR SLOT | Slot number portion of LSID identifying slot within the PLPA page data set |

QSRCD Cross Reference

| Name | Hex Offset | Hex Value |
|----------|------------|-----------|
| QSR | 0 | |
| QSRCOMMF | 14 | 40 |
| QSRENTY | 0 | |
| QSRFLAGS | 14 | |
| QSRHDR | 0 | |
| QSRIDNT | 0 | |
| QSRLSID | 0 | |
| QSRMAP | C0 | |
| QSRPLPAE | 10 | |
| QSRPLPAF | 14 | 80 |
| QSRPLPAS | C | |
| QSRPRODI | 28 | |
| QSRPTNN | 0 | |
| QSRRSV | 30 | |
| QSR SLOT | 1 | |
| QSRSYNCH | 18 | |
| QSRVMDI | 8 | |
| QSRXNUM | 24 | |
| QSRXQSR | 20 | |

QVOD Heading Information

Common Name: Queue Verifier Output Data
Macro ID: IHAQVOD
DSECT Name: QVODHDR
Owning Component: Supervisor Control (SC1C5)
Eye-Catcher ID: None
Subpool and Key: User subpool and key (Residence - user defined)
Size: Variable
Created by: Caller of Queue Verifier
Pointed to by: QVPLODA field of the QVPL data area.
Serialization: Supplied by the caller of module IEAVEQV0, IEAVEQV4 or IEAVEQV5.
Function: Provides diagnostic information to the Queue Verifier. Describes all errors found and corrective actions taken.

QVOD Map

| Offsets | | | | | |
|----------------|-----|------------|-----|-------------|-------------------------------|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | QVOD | |
| Comment | | | | | |
| HEADER | | | | | |
| End of Comment | | | | | |
| 0 | (0) | SIGNED | 4 | QVODHDR (0) | HEADER TO DATA AREA |
| 0 | (0) | CHARACTER | 1 | QVODRES1 | RESERVED BYTE 1 |
| 1 | (1) | CHARACTER | 1 | QVODSIZE | TOTAL AVAILABLE SIZE IN BYTES |
| 2 | (2) | CHARACTER | 1 | QVODRES2 | RESERVED BYTE 2 |
| 3 | (3) | CHARACTER | 1 | QVODUSED | NUMBER OF BYTES USED |

| Offsets | | | | | |
|---------|-----|------------|-----|--------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | QVODCMMN | COMMON PORTION OF DATA AREA |
| 0 | (0) | CHARACTER | 1 | QVODKL (0) | KEY/LENGTH |
| 0 | (0) | CHARACTER | 1 | QVODKEY | KEY=VRAQVOD |
| 1 | (1) | CHARACTER | 1 | QVODLEN | LENGTH OF QVODR15+ENTRIES |
| 2 | (2) | CHARACTER | 4 | QVODR15 (0) | SAME CONTENTS AS REG 15 ON RETURN |
| 2 | (2) | CHARACTER | 1 | QVODFLGS | FLAG BYTE |
| | | 1... .. | | QVODOVFL | "X'80" IF TOP BIT ON, AN OVERFLOW OF RECORDING INFORMATION HAS OCCURRED |
| | | .1.. .. | | QVODR15R | "X'40" IF BIT IS ON, ENOUGH ROOM EXISTS FOR THE KEY/LENGTH FIELDS AND REGISTER 15. |
| | | ..11 1111 | | QVODRES3 | "X'3F" RESERVED BITS |
| 3 | (3) | CHARACTER | 1 | QVODNREC | NUMBER OF ERRORS RECORDED |
| 4 | (4) | CHARACTER | 1 | QVODNDET | NUMBER OF ERRORS DETECTED |
| 5 | (5) | CHARACTER | 1 | QVODRCOD | RETURN CODE |
| 6 | (6) | CHARACTER | 16 | QVODFENT (0) | FIRST ERROR ENTRY |

| Offsets | | | | | |
|---------|-----|------------|-----|--------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | QVODENT | ERROR ENTRY FORMAT |
| 0 | (0) | CHARACTER | 4 | QVODCDAT (0) | CONSTANT DATA |
| 0 | (0) | CHARACTER | 1 | QVODERRC | ERROR CODE (SEE TABLE NAMED "QUEUE VERIFY ERROR CODES" IN THE COMPONENT DIAGNOSIS: SUPERVISOR CONTROL BOOK) |

QVOD Cross Reference

| Offsets | | | | | |
|---------|-----|------------|-----|--------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 1 | (1) | CHARACTER | 1 | QVODERRX | EXTENDED ERROR CODE (SEE TABLE NAMED "QUEUE VERIFY ERROR CODES" IN THE COMPONENT DIAGNOSIS: SUPERVISOR CONTROL BOOK) |
| 2 | (2) | CHARACTER | 1 | QVODTYPE | ENTRY POINT ID IN IEAVEQVX |
| 3 | (3) | CHARACTER | 1 | QVODELEN | REPORT LENGTH FOR IEAVEQVX |
| 4 | (4) | CHARACTER | 12 | QVODVDAT (0) | VARIABLE DATA |
| 4 | (4) | CHARACTER | 4 | QVODVW1 | VARIABLE DATA WORD 1 |
| 8 | (8) | CHARACTER | 4 | QVODVW2 | VARIABLE DATA WORD 2 |
| 12 | (C) | CHARACTER | 4 | QVODVW3 | VARIABLE DATA WORD 3 |
| 12 | (C) | X'10' | 0 | QVODEND | *** END OF QVOD |
| 12 | (C) | X'10' | 0 | QVODENSZ | "QVODEND-QVODENT" SIZE OF QVOD |

| Offsets | | | | | |
|---------|------|------------|-----|--------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | QVODENTX | ERROR ENTRY FORMAT |
| 0 | (0) | CHARACTER | 4 | QVODXDAT (0) | CONSTANT DATA |
| 0 | (0) | CHARACTER | 1 | QVODXERR | ERROR CODE (SEE TABLE NAMED "QUEUE VERIFY ERROR CODES" IN THE COMPONENT DIAGNOSIS: SUPERVISOR CONTROL BOOK) |
| 1 | (1) | CHARACTER | 1 | QVODXERX | EXTENDED ERROR CODE (SEE TABLE NAMED "QUEUE VERIFY ERROR CODES" IN THE COMPONENT DIAGNOSIS: SUPERVISOR CONTROL BOOK) |
| 2 | (2) | CHARACTER | 1 | QVODXTYP | ENTRY POINT ID IN IEAVEQVX |
| 3 | (3) | CHARACTER | 1 | QVODXELN | REPORT LENGTH FOR IEAVEQVX. |
| 4 | (4) | CHARACTER | 28 | QVODXVD (0) | VARIABLE DATA |
| 4 | (4) | CHARACTER | 4 | QVODXVW1 | VARIABLE DATA WORD 1 |
| 8 | (8) | CHARACTER | 4 | QVODXVW2 | VARIABLE DATA WORD 2 |
| 12 | (C) | CHARACTER | 4 | QVODXVW3 | VARIABLE DATA WORD 3 |
| 16 | (10) | CHARACTER | 4 | QVODXR14 | RESERVED ---- WORD 4 |
| 20 | (14) | CHARACTER | 4 | QVODXVW5 | VARIABLE DATA WORD 5 |
| 24 | (18) | CHARACTER | 4 | QVODXVW6 | VARIABLE DATA WORD 6 |
| 28 | (1C) | CHARACTER | 4 | QVODXVW7 | VARIABLE DATA WORD 7 |
| 28 | (1C) | X'20' | 0 | QVODXEND | *** END OF MULTI-SPACE OUTPUT AREA |
| 28 | (1C) | X'20' | 0 | QVODXSZ | "QVODXEND-QVODENTX" SIZE OF MULTI-SPACE OUTPUT AREA |

QVOD Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| QVOD | 0 | | QVODRES3 | 2 | 3F |
| QVODCDAT | 0 | | QVODR15 | 2 | |
| QVODCMMN | 0 | | QVODR15R | 2 | 40 |
| QVODELEN | 3 | | QVODSIZE | 1 | |
| QVODEND | C | 10 | QVODTYPE | 2 | |
| QVODENSZ | C | 10 | QVODUSED | 3 | |
| QVODENT | 0 | | QVODVDAT | 4 | |
| QVODENTX | 0 | | QVODVW1 | 4 | |
| QVODERRC | 0 | | QVODVW2 | 8 | |
| QVODERRX | 1 | | QVODVW3 | C | |
| QVODFENT | 6 | | QVODXDAT | 0 | |
| QVODFLGS | 2 | | QVODXELN | 3 | |
| QVODHDR | 0 | | QVODXEND | 1C | 20 |
| QVODKEY | 0 | | QVODXERR | 0 | |
| QVODKL | 0 | | QVODXERX | 1 | |
| QVODLEN | 1 | | QVODXR14 | 10 | |
| QVODNDET | 4 | | QVODXSZ | 1C | 20 |
| QVODNREC | 3 | | QVODXTYP | 2 | |
| QVODOVFL | 2 | 80 | QVODXVD | 4 | |
| QVODRCOD | 5 | | QVODXVW1 | 4 | |
| QVODRES1 | 0 | | QVODXVW2 | 8 | |
| QVODRES2 | 2 | | QVODXVW3 | C | |

| Name | Hex Offset | Hex Value |
|----------|---------------|--------------|
| QVODXVW5 | 14 | |
| QVODXVW6 | 18 | |
| QVODXVW7 | 1C | |

QVPL Heading Information

Common Name: Queue Verification Parameter List
Macro ID: IHAQVPL
DSECT Name: QVPL
Owning Component: Supervisor Control (SC1C5)
Eye-Catcher ID: None
Subpool and Key: Determined by the caller of the queue verify service
Size: 44 bytes
Created by: Caller of queue verify service
Pointed to by: N/A
Serialization: Provided by caller
Function: Maps the input parameter list of the queue verify service.

QVPL Map

| Offsets | | Type | Len | Name (Dim) | Description |
|--|------|-----------|-----|------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 40 | QVPL | |
| 0 | (0) | CHARACTER | 40 | QVPLTYP3 | |
| Comment | | | | | |
| DOUBLE-THREADED OR ACCESS REGISTER QUALIFIED QUEUE | | | | | |
| End of Comment | | | | | |
| 0 | (0) | CHARACTER | 33 | QVPLTYP2 | |
| Comment | | | | | |
| SINGLE-THREADED, HDR & TLR QUEUE | | | | | |
| End of Comment | | | | | |
| 0 | (0) | CHARACTER | 28 | QVPLTYP1 | |
| Comment | | | | | |
| SINGLE-THREADED, HEADER QUEUE | | | | | |
| End of Comment | | | | | |
| Comment | | | | | |
| TYPE ONE QUEUE -- SINGLE THREADED, HEADER QUEUE | | | | | |
| End of Comment | | | | | |
| 0 | (0) | ADDRESS | 4 | QVPLEVR | ADDR OF ELEMENT VERIFY RTN |
| 4 | (4) | ADDRESS | 4 | QVPLODA | ADDR OF OUTPUT DATA AREA |
| 8 | (8) | ADDRESS | 4 | QVPLWKA | ADDR OF WORK AREA FOR QUEUE VERIFY NOTE: THERE ARE CONSTANTS, QVPLWAL1-QVPLWAL6, INITIALIZED TO THE SIZE OF THE WORK AREA'S FOR ENTRY POINTS, IEAVEQV1-IEAVEQV6, RESPECTIVELY |
| 12 | (C) | ADDRESS | 4 | QVPLNOEL | VALUE IN HEADER WHEN NO ELTS ON QUEUE |
| 16 | (10) | ADDRESS | 4 | QVPLHDR | ADDRESS OF QUEUE HEADER |
| 20 | (14) | CHARACTER | 4 | QVPLHF | FORWARD POINTER DESCRIPTORS |
| 20 | (14) | CHARACTER | 1 | QVPLFLGH | HEADER FLAG FIELD |
| | | 1... | | QVPLHD3 | IF 1, HEADER= 3 BYTE FIELD IF 0, HEADER = 4 BYTES |
| | | .1.. | | QVPLEXT | IF 1, EXTENDED QUEUE-VERIFIER PARAMETER LIST |
| | | ..11 1111 | | QVPLRES1 | REST OF BYTE RESERVED |
| 21 | (15) | CHARACTER | 1 | QVPLFLGF | FORWARD PTR FLAG FIELD |
| | | 1... | | QVPLFP3 | IF 1, FWD PTR = 3 BYTE FIELD IF 0, FWD PTR = 4 BYTES |

QVPL Constants

| Offsets | | | | | |
|---------|------|-----------|-----|------------|--|
| Dec | Hex | Type | Len | Name (Dim) | Description |
| | | .111 1111 | | QVPLRES2 | REMAINDER OF BYTE RESERVED |
| 22 | (16) | SIGNED | 2 | QVPLFPTR | OFFSET IN BYTES OF FORWARD CHAIN POINTER |
| 24 | (18) | ADDRESS | 4 | QVPLLELM | VALUE IN FORWARD POINTER OF LAST ELEMENT |
| 28 | (1C) | CHARACTER | 0 | QVPLEND1 | END OF TYPE 1 QVPL |

Comment

TYPE TWO QUEUE -- SINGLE THREADED, HDR & TRLR QUEUE

End of Comment

| | | | | | |
|----|------|-----------|---|----------|--|
| 28 | (1C) | ADDRESS | 4 | QVPLTRLR | ADDR OF QUEUE TRAILER |
| 32 | (20) | CHARACTER | 1 | QVPLTBE | TRLR & BKWD PTR DESCRIPTORS |
| 32 | (20) | CHARACTER | 1 | QVPLFLGT | TRAILER FLAG FIELD |
| | | 1... | | QVPLTR3 | IF 1, TRLR = 3 BYTE FIELD IF 0, TRLR = 4 BYTES |
| | | .111 1111 | | QVPLRES3 | REMAINDER OF BYTE RESERVED |
| 33 | (21) | CHARACTER | 0 | QVPLEND2 | END OF TYPE 2 QVPL |

Comment

TYPE THREE QUEUE -- DOUBLE THREADED, HDR & TRLR QUEUE

End of Comment

| | | | | | |
|----|------|-----------|---|---|-------------------------------|
| 33 | (21) | CHARACTER | 7 | * | DEFINED IN DECLARE FOR QVPLE2 |
|----|------|-----------|---|---|-------------------------------|

| Offsets | | | | | |
|---------|------|-----------|-----|------------|---|
| Dec | Hex | Type | Len | Name (Dim) | Description |
| 32 | (20) | STRUCTURE | 8 | QVPLE2 | |
| 32 | (20) | CHARACTER | 4 | QVPLTB | |
| 32 | (20) | CHARACTER | 1 | * | |
| 33 | (21) | CHARACTER | 1 | QVPLFLGB | BACKWARD PTR FLAG FIELD |
| | | 1... | | QVPLBP3 | IF 1, BKWD PTR=3 BYTE FIELD IF 0, BKWD PTR= 4 BYTES |
| | | .111 1111 | | QVPLRES4 | REMAINDER OF BYTE RESERVED |
| 34 | (22) | SIGNED | 2 | QVPLBPTR | OFFSET IN BYTES OF BACKWARD CHAIN POINTER |
| 36 | (24) | ADDRESS | 4 | QVPLFELM | VALUE IN BACKWARD CHAIN OF FIRST ELEMENT |
| 40 | (28) | CHARACTER | 0 | QVPLEND | END OF TYPE 3 QVPL |

QVPL Constants

| Len | Type | Value | Name | Description |
|-----|---------|-------|----------|--|
| 4 | DECIMAL | 40 | QVPLWAL1 | COMPILE TIME VARIABLE EQUAL TO WORK AREA SIZE FOR ENTRY IEAVEQV1 |
| 4 | DECIMAL | 40 | QVPLWAL2 | COMPILE TIME VARIABLE EQUAL TO WORK AREA SIZE FOR ENTRY IEAVEQV2 |
| 4 | DECIMAL | 40 | QVPLWAL3 | COMPILE TIME VARIABLE EQUAL TO WORK AREA SIZE FOR ENTRY IEAVEQV3 |
| 4 | DECIMAL | 160 | QVPLWAL4 | COMPILE TIME VARIABLE EQUAL TO WORK AREA SIZE FOR ENTRY IEAVEQV4 |
| 4 | DECIMAL | 160 | QVPLWAL5 | COMPILE TIME VARIABLE EQUAL TO WORK AREA SIZE FOR ENTRY IEAVEQV5 |
| 4 | DECIMAL | 160 | QVPLWAL6 | COMPILE TIME VARIABLE EQUAL TO WORK AREA SIZE FOR ENTRY IEAVEQV6 NOTE: NOT NEEDED BUT LEFT FOR COMPATIBILITY |

QVPL Cross Reference

| Name | Hex Offset | Hex Value |
|----------|---------------|--------------|
| QVPL | 0 | |
| QVPLBPTR | 22 | |
| QVPLBP3 | 21 | 80 |
| QVPLEND | 28 | |
| QVPLEND1 | 1C | |
| QVPLEND2 | 21 | |
| QVPLEVR | 0 | |
| QVPLEXT | 14 | 40 |
| QVPLE2 | 20 | |
| QVPLFELM | 24 | |
| QVPLFLGB | 21 | |
| QVPLFLGF | 15 | |
| QVPLFLGH | 14 | |
| QVPLFLGT | 20 | |
| QVPLFPTR | 16 | |
| QVPLFP3 | 15 | 80 |
| QVPLHDR | 10 | |
| QVPLHD3 | 14 | 80 |
| QVPLHF | 14 | |
| QVPLLELM | 18 | |
| QVPLNOEL | C | |
| QVPLODA | 4 | |
| QVPLRES1 | 14 | 3F |
| QVPLRES2 | 15 | 7F |
| QVPLRES3 | 20 | 7F |
| QVPLRES4 | 21 | 7F |
| QVPLTB | 20 | |
| QVPLTBE | 20 | |
| QVPLTRLR | 1C | |
| QVPLTR3 | 20 | 80 |
| QVPLTYP1 | 0 | |
| QVPLTYP2 | 0 | |
| QVPLTYP3 | 0 | |
| QVPLWKA | 8 | |

QWA Heading Information

Common Name: QUEUE WORK AREA
Macro ID: ISGQWA
DSECT Name: QWA
Owning Component: Global Resource Serialization (SCSDS)
Eye-Catcher ID: Local QWA - LQWA
 Global QWA - GQWA
 Offset: 0
 Length: 4
Storage Attributes: Subpool: 245
 Key: 0
 Residency: Below 16M line
Size: 1200 BYTES
Created by: THE LOCAL/GLOBAL QWA-S HAVE BEEN DEFINED BY THE
 GRS RIM, ISGNCBIM.
Pointed to by: LOCAL QWA - GVTLQWA
 GLOBAL QWA - GVTGQWA
Serialization: LOCAL QWA - CMS ENQ/DEQ CLASS LOCK.
 GLOBAL QWA - GRS LOCAL LOCK.
 SVRB QWA - REQUESTOR'S LOCAL LOCK.
Function: USED AS A COMMON WORK AREA FOR THE ENQ/DEQ/RESERVE
 PROCESSING ROUTINES.
 NOTE THAT THE QWA MAY BE MAPPED TO THE FOLLOWING
 STORAGE AREAS.
 1. LOCAL QWA - USED WHEN PROCESSING A
 LOCAL RESOURCE.
 2. GLOBAL QWA - USED WHEN PROCESSING A
 GLOBAL RESOURCE.
 3. SVRB QWA - USED DURING COMPLETION
 PROCESSING. THIS AREA
 MAPS TO THE RB EXTENDED
 SAVEAREA.

QWA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|------|------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 1200 | QWA | QUEUE WORK AREA |
| 0 | (0) | ADDRESS | 4 | QWANCELL | pointer to next Qwa when being obtained or freed |
| 0 | (0) | CHARACTER | 4 | QWAID | CONTROL BLOCK IDENTIFIER |
| 4 | (4) | CHARACTER | 48 | QWABASIC | QWA BASIC SECTION - THIS IS THE ONLY SECTION THAT CAN MAP TO THE RB EXTENDED SAVEAREA OR THE RMPL WORK AREA |
| 4 | (4) | ADDRESS | 4 | QWAPELA | INPUT PEL ADDRESS |
| 8 | (8) | UNSIGNED | 1 | QWAKEY | REQUESTOR-S KEY |
| | | 1111 | | QWAKEYNB | QWA KEY NIBBLE |
| | | 1111 | | * | RESERVED |
| 9 | (9) | UNSIGNED | 1 | QWARETRY | ID FOR RETRY ADDRESS |
| 10 | (A) | CHARACTER | 2 | QWARSVD3 | RESERVED |
| 12 | (C) | ADDRESS | 4 | * | reserved |
| 16 | (10) | ADDRESS | 4 | * | reserved |
| 20 | (14) | CHARACTER | 28 | QWARSA | REQUEST SAVE AREA - THIS AREA IS MOVED TO THE QWBHRSA WHEN A GLOBAL RESOURCE IS REQUESTED |
| 20 | (14) | ADDRESS | 4 | QWAMRBQ | POINTER TO FIRST MESSAGE IN MRB QUEUE |
| 24 | (18) | UNSIGNED | 1 | QWAERR | FIRST DIGIT OF ABEND CODE |

QWA Map

| Offsets | | | | | |
|---|------|------------------------|-----|--------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 25 | (19) | BITSTRING 1... | 1 | QWAMFGS QWAEFDM | MISC FLAG BITS FAST-DEQ-MARK-FLAG. IF 1, BEING PERFORMED ON BEHALF OF A TASK WHICH RECEIVES A RETCODE OF ZERO WHEN IT ISSUED A DEQ. THE DEQ WAS HANDLED BY FAST-DEQ. |
| | | .1.. | | QWAFDQS | FAST-DEQ-QWB-SEEN FLAG. WHEN 1, THIS FAST DEQ REQUEST-S QWB HAS BEEN SEEN BY ISGGRP00 AND CAN BE FREED BY ISGGNQDQ BACK-END OR HAS BEEN SEEN BY ISGGNQDQ BACK-END AND CAN BE FREED BY ISGGRP00 |
| | | ..11 1111 | | * | RESERVED |
| 26 | (1A) | UNSIGNED | 2 | QWAPFLGS | SAVED PEL FLAGS |
| 26 | (1A) | UNSIGNED | 1 | QWAPLAST | SAVED PELLAST FLAG BYTE |
| | | 1... | | QWAEOL | PELEOL |
| | | .1.. | | QWAINOR | PELIGNOR |
| | | ..1. | | QWARES1 | PELRES1 |
| | | ...1 | | QWASHR | PELSHR |
| | | 1... | | QWASAVE | PELSAVE |
| | |1.. | | QWAGEN1 | PELGEN1 |
| | |1. | | QWAGEN2 | PELGEN2 |
| | |1 | | QWATCBF | PELTCBF |
| 27 | (1B) | UNSIGNED | 1 | QWAPFLAG | SAVED PELFLAG FLAG BYTE |
| | | 1... | | QWASHARE | PELSHARE |
| | | .1.. | | QWASCPE1 | PELSCPE1 |
| | | ..1. | | QWASYSMC | PELSYSMC |
| | | ...1 | | QWASTPMC | PELSTPMC |
| | | 1... | | QWASCPE2 | PELSCPE2 |
| | |1.. | | QWARET1 | PELRET1 |
| | |1. | | QWARET2 | PELRET2 |
| | |1 | | QWARET3 | PELRET3 |
| 28 | (1C) | BITSTRING | 1 | QWAFLAG1 | QWA PROCESS FLAGS |
| Comment | | | | | |
| THE FOLLOWING FLAGS ARE INITIALIZED IN THE QWA BY THE ENQ/DEQ/RESERVE MAINLINE ROUTINE. WHEN A GLOBAL RESOURCE REQUEST IS PROCESSED BY THE GRP, THE DATA IS MOVED TO THE QWB HEADER (QWBHFLG1). WHEN THE ENQ/DEQ/RESERVE SVRB IS POST'D, THE INFORMATION IS MOVED BACK TO THE QWA. THEREFORE THE BIT DEFINITIONS OF QWBHFLG1 MUST MATCH THE BIT DEFINITION OF QWAFLAG1. | | | | | |
| End of Comment | | | | | |
| | | 1... | | QWASTLC | STEAL PROCESSING IS NOW COMPLETE, I.E., STEAL QWB(S) HAVE BEEN PLACED ON THE REQUEST QUEUE IF NECESSARY |
| | | .1.. | | QWASMC | INDICATES SET SMC STATUS (on ENQ request only) |
| | | .1.. | | QWARMC | INDICATES RESET SMC STATUS (on DEQ or purge request only) |
| | | ..1. | | QWAMTDQ | MASID-target DEQ. A QEL was DEQ-ed while it is the target of another QEL that has a non-zero QELMASID. |
| | | ...1 | | QWASPOST | INDICATES SPOST IS NECESSARY |
| | | 1... | | QWAIN | INDICATES AN INTERNALLY GENERATED REQUEST |
| | |1.. | | QWALNGWT | A LONG-WAIT IS NECESSARY |
| | |1. | | QWAPC | PC HAS BEEN ISSUED |
| | |1 | | QWAPURG | INDICATE ISGGDEQP HAS PURGED THE QWB THAT WAS MAPPED TO THIS QWA |
| 29 | (1D) | BITSTRING | 1 | QWAFLAG2 | QWA STATUS FLAGS |

| Offsets | | | | | |
|--|------|-----------------------|-----|---------------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| Comment | | | | | |
| THE FOLLOWING FLAGS ARE INITIALIZED IN THE QWA BY THE ENQ/DEQ/RESERVE MAINLINE ROUTINE. WHEN A GLOBAL RESOURCE IS REQUESTED, MAINLINE FRONT-END PROCESSING WILL MOVE THIS FLAG BYTE TO QWBHFLG2. THEREFORE THE BIT DEFINITIONS OF QWAFLAG2 MUST MATCH THE BIT DEFINITIONS OF QWBHFLG2. | | | | | |
| End of Comment | | | | | |
| | | 1... | | QWAMIXR | MIXED RESOURCE REQUEST |
| | | .1... | | QWATCBFA | REQUESTING TASK WAS ABENDING WHEN THE REQUEST WAS RECEIVED |
| | | ...1. | | QWAAUTH | REQUESTOR IS AUTHORIZED |
| | | ...1 | | QWAGLBL | GLOBAL RESOURCES DEFINED IN THE QWB |
| | | 1... | | QWAECBF | ECB= SPECIFIED |
| | |1.. | | QWASVC56 | ENQ/RESERVE REQUEST |
| | |1.. | | QWAABDMC | THE TASK OR ADDRESS SPACE HAS TERMINATED WHILE IN MUST COMPLETE |
| 30 | (1E) |1 UNSIGNED | 2 | QWASYNCC QWAGRES | SYNCHRONIZATION COMPLETE FOR ENQ REQUESTS, THE NUMBER OF GLOBAL RESOURCES FOR WHICH NO QEL WAS PUT IN QUEUE. FOR DEQ REQUESTS, THE NUMBER OF GLOBAL RESOURCES FOR WHICH A QEL WAS REMOVED FROM QUEUE |
| 32 | (20) | ADDRESS | 4 | QWAECSA | ECB ADDRESS - THIS FIELD IS REPLACED BY QWAQWBA WHEN THE QWABASIC SECTION MAPS TO THE SVRB EXTENDED SAVEAREA. |
| 32 | (20) | ADDRESS | 4 | QWAQWBA | DUAL USE FIELD. THIS FIELD WILL ONLY EXIST IN THE SVRB QWA WHEN AN ENQ/DEQ REQUESTOR IS SUSPENDED. IF A LOCAL RESOURCE IS BEING PROCESSED, THIS FIELD CONTAINS ZEROES. IF A GLOBAL RESOURCE IS BEING PROCESSED THIS FIELD CONTAINS THE ADDRESS OF THE FIRST QWB DEFINING THE REQUEST. THIS ENSURES THE QWB ADDRESS IS MADE AVAILABLE TO THE MAINLINE ESTAE ROUTINE SHOULD AN ERROR OCCUR OVER THE GLOBAL SUSPENSION. |
| 36 | (24) | ADDRESS | 4 | QWATCSA | REQUESTOR-S (OR DIRECTED) TCB ADDRESS |
| 40 | (28) | ADDRESS | 4 | QWASVRBA | SVRB ADDRESS FOR THIS REQUEST |
| 44 | (2C) | ADDRESS | 4 | QWAQXB | ADDRESS OF QXB |
| Comment | | | | | |
| END OF RSA SECTION | | | | | |
| End of Comment | | | | | |
| 48 | (30) | BITSTRING | 1 | QWAFLAG3 | REQUEST PROCESSING FLAGS - THESE FLAGS ARE NOT TRANSPOSED TO THE QWB. |
| | | 1... | | QWACMS | CMS LOCK HELD |
| | | .1... | | QWAFRR | FRR ESTABLISHED |
| | | ...1. | | QWAREQLL | REQUESTOR-S LOCAL LOCK |
| | | ...1 | | QWAGRSLL | GRS LOCAL LOCK |
| | | 1... | | QWA3ERSQ | EARLY-RESERVE-QUEUE FLAG. IF 1, THE ENQ/DEQ REQUEST HAS A GLOBAL RESOURCE WITH THE SAME NAME AS AN EARLY-RESERVE LOCAL RESOURCE. EVERY QWB OF THE REQUEST MUST BE PLACED ON THE EARLY-RESERVE QUEUE. |
| | |1.. | | QWARQDMG | REQUEST DAMAGED FLAG. IF 1, THE QWB FOR THIS REQUEST WAS DAMAGED SINCE THE QWBHYSID FIELD DID NOT CONTAIN A VALID SYSID. IF THE REQUEST REPRESENTS AN ENQ, THE ENQ PROCESSING ROUTINE WILL SET THE QCBNOENQ FLAG IN EACH REQUESTED QCB AND WILL ADD A QEL TO THE QCB CHAIN. |

QWA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------------|---|
| Dec | Hex | | | | |
| 49 | (31) |1. | 1 | QWAPCENQ | LINKAGE=SYSTEM Request |
| | |1 | | QWALSTRQ | LIST REQUEST - IF 1, REQUEST WAS PART OF A |
| | | | | | MULTIPLE RESOURCE REQUEST FROM THIS SYSTEM |
| | | | | QWAFLAG4 | REQUEST PROCESSING FLAGS - THESE FLAGS ARE NOT |
| | | | | | TRANPOSED TO THE QWB. |
| | | 1... | | QWABADML | BAD MINOR LENGTH SPECIFIED |
| | | .1.. | | QWADMGE | TRIGGERS Q-DAMAGE MESSAGE |
| | | ..1. | | QAWAITN | WAITING QEL FOUND (NOT ECB) |
| | | ...1 | | QWA1DEQ | AT LEAST 1 QEL DEQUEUED |
| | | 1... | | QWA4RSV1 | RESERVED |
| 50 | (32) |1. | 1 | QWANOENQ | TURN OFF ALL ENQ-S |
| | | | | QWAFLAG5 | REQUEST PROCESSING FLAGS - THESE FLAGS ARE NOT |
| | | | | | TRANPOSED TO THE QWB |
| | | 1... | | QWAGLBLQ | THE GLOBAL ASCB QEL QUEUE IS BEING SEARCHED |
| | | .1.. | | QWARMFP | RMF HAS BEEN CALLED |
| | | ..1. | | QWAHOLD | ISSUE ENQHOLD SYSEVENT |
| | | ...1 | | QWAQXBO | QXB OBTAINED |
| | | 1... | | QWACSYID | REQUEST WAS INITIATED FROM THE CURRENT SYSTEM |
| | |1. | | QWAPHLDR | QSCAN PLACE-HOLDER QCB IS BEING PURGED. |
| | |1. | | QWAMOD24 | REQUEST WAS INITIATED IN 24-BIT AMODE |
| 51 | (33) |1 | 1 | QWAGBLRS | TASK OWNS GLOBAL RESOURCES |
| | | | | QWAFLAG6 | QWA STATUS FLAGS |
| | | 1... | | QWAR15SW | NON-ZERO RETURN CODE PRESENT |
| | | .1.. | | QWA6ECBZ | ECB-ZERO FLAG. ECB-OPERAND WAS SPECIFIED, WITH |
| | | | | | ECB-ADDRESS OF ZERO. SET FLAG QELECBZ. |
| | | ..1. | | QWA6GERT | Global ENQ RET=TEST PELs exist for this request |
| | |1. | | QWACALLGERTS | Indicates whether ISGGLUPC should call ISGGERTS. |
| | | 1... | | QWAGLOBALSQUEUED | |
| | | | | | Indicates that ISGGLU has or is about to place the global Qwb |
| | | | | | onto GvtReqQ |
| 52 | (34) |1. | 0 | QWARNLSCHANGED | Indicates that ISGGLU detected that the RNLs had changed |
| | |1. | | | across the window where lock were dropped and the request |
| | | | | | thus needs to be redriven and the queued1 exit notified |
| | |1. | | QWAQXBOG | Qxb obtained by a GRP |
| | |1 | | QWAPRNEEDED | ISGGQWBI did a stacking PC or a BAKR, so XENDUP in |
| | | | | | ISGGNQDQ needs to do the PR to unstack |
| | | | | QWAEND1 | END BASIC SECTION |
| | | | | | |
| | | | | | |
| | | | | | |

Comment

NOTE THAT THE FOLLOWING FIELDS ARE NOT INCLUDED IN THE SVRB QWA

End of Comment

| | | | | | |
|----|------|-----------|-----|----------|--|
| 52 | (34) | CHARACTER | 140 | QWARDA | QWA REQUEST DATA AREA |
| 52 | (34) | CHARACTER | 16 | QWARSA2 | QWA REQUEST DATA AREA |
| 52 | (34) | CHARACTER | 8 | QWAJOBNM | JOBNAME/USERID OF REQUESTOR |
| 60 | (3C) | UNSIGNED | 4 | QWAORIGN | ORIGIN OF REQUESTOR |
| 60 | (3C) | UNSIGNED | 2 | QWASYSID | SYSID OF REQUESTOR |
| 62 | (3E) | UNSIGNED | 2 | QWAASID | ASID OF REQUESTOR |
| 64 | (40) | ADDRESS | 4 | QWAASCB | IF ENQ/DEQ/RESERVE, ADDRESS OF REQUESTOR-S |
| | | | | | ASCB. NOTE THAT IF THE HIGH-ORDER BIT IS SET, AN |
| | | | | | ISGQSCAN INFORMATION ROUTINE EXISTS FOR THE |
| | | | | | ADDRESS SPACE. IF A PURGE REQUEST, ADDRESS OF |
| | | | | | TARGET ASCB |

Comment

END OF RSA2 SECTION

End of Comment

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|---------------------|---|
| Dec | Hex | | | | |
| 68 | (44) | SIGNED | 4 | QWALOCLR | COUNT OF LOCAL RESOURCES REQUESTED |
| 72 | (48) | SIGNED | 4 | QWAGLBLR | COUNT OF GLOBAL RESOURCES REQUESTED |
| 76 | (4C) | SIGNED | 4 | QWAQWBS | COUNT OF QWB-S REQUIRED TO CONTAIN A GLOBAL RESOURCE REQUEST. |
| 80 | (50) | SIGNED | 4 | QWAFREEC | COUNT OF QCB/QEL/QXB-S TO BE FREED |
| 84 | (54) | SIGNED | 4 | QWACPELR | COUNT OF PEL ENTRIES REMAINING TO BE MOVED TO THE PRIVATE AREA QWB(S) |
| 88 | (58) | SIGNED | 4 | QWAPRMSZ | TOTAL SIZE OF INPUT PEL |
| 92 | (5C) | SIGNED | 4 | QWANMESZ | TOTAL SIZE OF QNAME/RNAME-S IN PEL |
| 96 | (60) | UNSIGNED | 2 | QWAQWBSZ | AVAILABLE BYTES IN A PRIVATE AREA QWB |
| 98 | (62) | UNSIGNED | 2 | QWACSYS | CURRENT SYSID (0 FOR A LOCAL RESOURCE REQUEST) |
| 100 | (64) | ADDRESS | 4 | QWAQWBHS | ADDRESS OF THE QWB HEADER AND SMPL. IF A LOCAL RESOURCE IS BEING PROCESSED, CONTAINS THE ADDRESS OF THE SQA QWB. IF A GLOBAL RESOURCE IS BEING PROCESSED, CONTAINS THE ADDRESS OF A PRIVATE AREA QWB. |
| 104 | (68) | ADDRESS | 4 | QWAQWBF | ADDRESS OF FIRST QWB ON THE REQUEST HOLD QUEUE |
| 108 | (6C) | ADDRESS | 4 | QWAQWBL | ADDRESS OF LAST QWB ON THE REQUEST HOLD QUEUE |
| 112 | (70) | ADDRESS | 4 | QWAFQEL | ADDRESS OF FIRST INITIALIZED QEL FOR THE CURRENT REQUEST |
| 116 | (74) | ADDRESS | 4 | QWACOQWB | CURRENT OUTPUT QWB ADDRESS, I.E., THE PRIVATE AREA QWB(S) TO CONTAIN THE GLOBAL RESOURCE(S) |
| 120 | (78) | ADDRESS | 4 | QWACIQWB | CURRENT INPUT QWB ADDRESS, I.E., THE SQA QWB OR SQA QWB EXTENSION |
| 124 | (7C) | ADDRESS | 4 | QWANSLOT | NEXT QWB SLOT |
| 128 | (80) | ADDRESS | 4 | QWAHASH | HASH TABLE SLOT OF INPUT RESOURCE NAME |
| 132 | (84) | ADDRESS | 4 | QWAFQWB | ADDRESS OF FIRST QWB DEFINING THE GLOBAL REQUEST. |
| 136 | (88) | ADDRESS | 4 | QWAPPELE | PREVIOUS PEL ENTRY |
| 140 | (8C) | ADDRESS | 4 | QWAGSA | ADDRESS OF LOCAL OR GLOBAL GSA |
| 144 | (90) | CHARACTER | 20 | QWADPL | DEQ PURGE LIST |
| 164 | (A4) | ADDRESS | 4 | QWACNFY@ | Address of contention notification parameter list |
| 168 | (A8) | ADDRESS | 4 | QWANQAR@ | Pointer to copy of QWA, SQA QWB, ISGGRX dynamic area, in the user address space |
| 172 | (AC) | BITSTRING | 2 | QWAEXITS | Exit processing indicators |
| 172 | (AC) | BITSTRING | 1 | QWAEXITSTATUS | |
| | | 1... | | QWAEXITSTATUSKNOWN | |
| | | | | | When set, exits have been checked |
| | | .1.. | | QWANEEDTOCALLQ1EXIT | |
| | | | | | When set, the batch exit was or is about to be called and thus recovery will need to call the queued1 exit in the event of a failure between the batch exit and queued1 exit calls. |
| 173 | (AD) | BITSTRING | 1 | QWALIVEEXITS | indicates which exits, if any, exist |
| | | 1... | | QWANXNQ | When set, there is an ISGNQXIT exit routine |
| | | .1.. | | QWANXBX | When set, there is an ISGNQXITBATCH exit routine |
| | | ..1. | | QWANXQ1X | When set, there is an ISGNQXITQUEUED1 exit routine |
| | | ...1 | | * | Reserved |
| | | 1... | | QWANXLQD | When set, there is an ISGENDOFLQCB exit routine |
| 174 | (AE) | UNSIGNED | 2 | QWAABENDCD | Abend Code presented to exit |
| 176 | (B0) | ADDRESS | 4 | QWAGVTAD | ADDRESS OF GVT |
| 180 | (B4) | CHARACTER | 12 | QWARSVSP | ISGGRSVS Parm List |
| 180 | (B4) | ADDRESS | 4 | QWAQWB@ | Pointer to QWA |
| 184 | (B8) | ADDRESS | 4 | QWAQEL@ | Pointer to QEL |
| 188 | (BC) | ADDRESS | 4 | QWAPEL@ | Pointer to PEL |
| 192 | (C0) | CHARACTER | 0 | QWAEND2 | END OF AREA CLEARED |
| 192 | (C0) | SIGNED | 4 | QWAWORK1 | GENERAL PURPOSE WORKAREA |

QWA Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---|-------|------------|-----|------------|---|
| Dec | Hex | | | | |
| Comment | | | | | |
| SAVEAREAS FOLLOW. NOTE THE FOLLOWING PROTOCOL FOR USE OF THESE SAVEAREAS. SAVEAREAS 1-3 CAN BE USED BY ANY ROUTINE WITH CORRECT SERIALIZATION BUT CANNOT BE USED BETWEEN MODULES. (ISGGNQDQ, ISGGQWBC, AND ISGGPGRP ARE COUNTED AS ONE MODULE IN APPLYING THIS RULE.) | | | | | |
| ISGGNQDQ PLACES THE ADDRESS OF QWASAVE1 IN REGISTER 13 BEFORE CALLING ISGGQWBC OR ISGGPGRP. THESE MODULES MUST NOT USE QWASAVE1. | | | | | |
| SAVEAREA 4 IS USED BY ISGGRP00 TO INTERFACE WITH ISGGNQDQ AND ISGGDEQP, AND BY ISGGNQDQ TO CALL ISGGQWBI. | | | | | |
| (NOTE: THE SAVEAREA IS USED FOR ISGGQWBI IN THE FRONT-END OF ISGGNQDQ, AND IS USED BY ISGGRP00 IN THE BACK-END PROCESSING DONE BY ISGGNQDQ.) | | | | | |
| SAVEAREA 5 IS USED BY ISGGDEQP TO INTERFACE WITH ISGGNQDQ AND BY ISGGQWBI IN CALLING EXTERNAL ROUTINES. | | | | | |
| (ISGGDEQP PLACES THE ADDRESS OF QWASAVE5 IN REGISTER 13 BEFORE CALLING ENTRY-POINT ISGGDQ00 OF ISGGNQDQ. ISGGQWBI IS NOT CALLED ON THIS PATH, WHICH IS BACK-END PROCESSING.) | | | | | |
| End of Comment | | | | | |
| 196 | (C4) | CHARACTER | 72 | QWASAVE1 | SAVEAREA 1 - LEVEL 1 S.A. |
| 268 | (10C) | CHARACTER | 72 | QWASAVE2 | SAVEAREA 2 - LEVEL 2 S.A. |
| 340 | (154) | CHARACTER | 72 | QWASAVE3 | SAVEAREA 3 - LEVEL 3 S.A. |
| 412 | (19C) | CHARACTER | 72 | QWASAVE4 | SAVEAREA 4 - FOR GRP00 |
| 484 | (1E4) | CHARACTER | 72 | QWASAVE5 | SAVEAREA 5 - USED ONLY BY ISGGDEQP AND ISGGQWBI |
| 556 | (22C) | ADDRESS | 4 | QWAS1R14 | REG 14 SUBROUTINE SAVEAREA 1 |
| 560 | (230) | ADDRESS | 4 | QWAS2R14 | REG 14 SUBROUTINE SAVEAREA 2 |
| 564 | (234) | ADDRESS | 4 | QWAS3R14 | REG 14 SUBROUTINE SAVEAREA 3 |
| 568 | (238) | ADDRESS | 4 | QWAS4R14 | REG 14 SUBROUTINE SAVEAREA 4 |
| 572 | (23C) | ADDRESS | 4 | QWAE1R13 | REG 13 ENTRY POINT SAVEAREA 1 |
| 576 | (240) | ADDRESS | 4 | QWAGRP13 | SAVEAREA TO CONTAIN THE SAVEAREA ADDRESS PROVIDED BY THE ATTACH OF GRP. |
| 580 | (244) | CHARACTER | 52 | QWATMRM | ENQ/DEQ TERMINATION RESOURCE MANAGER WORK AREA. |
| 580 | (244) | CHARACTER | 8 | QWASTPNM | STEPNAME OF TERMINATING TASK |
| 588 | (24C) | BITSTRING | 1 | QWARMFLG | RESOURCE MANAGER FLAGS |
| | | 1... | | QWAJSTEP | WHEN 1, JOBSTEP IS TERMINATING |
| | | .1.. | | QWARMRV7 | RESERVED |
| | | ..1. | | QWARMRV6 | RESERVED |
| | | ...1 | | QWARMRV5 | RESERVED |
| | | 1... | | QWARMRV4 | RESERVED |
| | |1.. | | QWARMRV3 | RESERVED |
| | |1. | | QWARMRV2 | RESERVED |
| | |1 | | QWARMRV1 | RESERVED |
| 589 | (24D) | CHARACTER | 3 | QWARMR01 | RESERVED |
| 592 | (250) | CHARACTER | 4 | QWACCODE | COMPLETION CODE |
| 592 | (250) | BITSTRING | 3 | QWACOMPC | SYSTEM COMPLETION CODE IS FIRST 12 BITS. USER COMPLETION CODE IS LAST 12 BITS. |
| 595 | (253) | BITSTRING | 1 | QWACCRV1 | RESERVED |
| 596 | (254) | ADDRESS | 4 | QWARB | CURRENT RB |
| 600 | (258) | CHARACTER | 32 | QWARUBTM | REGISTER UPDATE BLOCK FOR ISGGTRM1 RECOVERY |
| 632 | (278) | CHARACTER | 64 | QWAPGRWA | WORK-AREA USED BY ISGGPGRP. |
| 696 | (2B8) | CHARACTER | 12 | QWAPGROA | OUTPUT AREA PRODUCED BY ISGGPGRP. |
| 696 | (2B8) | BITSTRING | 1 | QWAFLAG7 | FIRST FLAG-BYTE FROM ISGGPGRP. |
| | | 1... | | QWA7OWNR | REQUESTOR OWNS RESOURCE, OR REQUESTOR IS NOT ON QEL-CHAIN BUT WILL OWN RESOURCE WHEN ITS QEL IS ADDED TO THE QEL-CHAIN. |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|------------|--|
| Dec | Hex | | | | |
| | | .1.. | | QWA7AURC | ADJUST-UCB-RESERVE-COUNT. IF 1, THE CALLER SHOULD INCREASE THE UCB-RESERVE COUNT (ENQ/RESERVE) OR REDUCE THE COUNT (DEQ). (THIS ADJUSTMENT SHOULD BE DONE ONLY IF THE CALLER FINDS THAT THE RESERVE-CONVERSION RNLE DOES NOT SUPPRESS THE RESERVE) VALID ONLY IN ORIGINATING SYSTEM. |
| | | ..1. | | QWA7CHGA | EXCLUSIVE-CONTROL ALLOWED. IF ENQ RET=CHNG: THE MATCH-QEL IS THE ONLY QEL THAT OWNS THE RESOURCE. IF MASID-ENQ: EXCLUSIVE-CONTROL IS ALLOWED IMMEDIATELY. IF MASID-ENQ CASE: VALID ONLY IN ORIGINATING SYSTEM. |
| | | ...1 | | QWA7HOLD | ISSUE SYSEVENT-HOLD(S). |
| | | 1... | | QWA7POST | POST A QEL OR QELS. |
| | |1.. | | QWA7RLSE | ISSUE SYSEVENT-RLSE(S). |
| | |1. | | QWA7COEX | COEXISTENCE RETURN-CODE FLAG. IF 1, THIS SYSTEM COULD NOT HONOR AN EXCLUSIVE ENQ WITH MASID OPERAND BECAUSE THE RESOURCE IS SHARED. VALID ONLY IN ORIGINATING SYSTEM. |
| | |1 | | QWA7ABMR | MASID-RESTRICTION VIOLATED. ENQ WITH MASID VIOLATES A RESTRICTION, OR DEQ RELEASES A RESOURCE USED AS A MASID-TARGET. VALID ONLY IN ORIGINATING SYSTEM. |
| 697 | (2B9) | BITSTRING | 1 | QWAFLAG8 | SECOND FLAG-BYTE FROM ISGGPGRP. |
| | | 1... | | QWA8EXSH | EXC/SHR. 1 MEANS RC=8 ENQ SHOULD REPORT SHR CONTROL. VALID ONLY IN ORIGINATING SYSTEM. |
| | | .1.. | | QWA8DCVT | Delayed convert request being POSTed. Indicates that the QEL pointed to by QWAPSTAD is a MASID convert-to-exclusive request that can now be given access to the resource without actually owning it. |
| | | ..1. | | QWA8CNST | Start of contention |
| | | ...1 | | QWA8CNCH | Change in contention |
| | | 1... | | QWA8CNEN | End of contention |
| | |1.. | | QWA8RSV3 | RESERVED |
| | |1. | | QWA8RSV2 | RESERVED |
| | |1 | | QWA8RSV1 | RESERVED |
| 698 | (2BA) | SIGNED | 2 | QWAGPMAS | MASID-VALUE TO BE PLACED IN NEW QEL (IF ANY). |
| 700 | (2BC) | ADDRESS | 4 | QWAMQLAD | ADDRESS OF MATCH-QEL. |
| 704 | (2C0) | ADDRESS | 4 | QWADSTAD | DEFERRED-STEAL ADDRESS. ADDRESS OF A QEL THAT CAN NOW BE STOLEN WHEN A MASIDQEL IS DEQ-ED. VALID ONLY IN ORIGINATING SYSTEM. |
| 708 | (2C4) | UNSIGNED | 1 | QWAPGRFN | ISGGPGRP FUNCTION-CODE |
| 709 | (2C5) | CHARACTER | 1 | QWARSVD5 | RESERVED |
| 710 | (2C6) | SIGNED | 2 | QWAFMTVL | VALUE OF FORMAT-BYTE THAT PRECEDES FIRST PEL, OR ZERO |
| 712 | (2C8) | SIGNED | 4 | QWASEHCT | COUNT OF SYSEVENT-HOLDS TO BE ISSUED. |
| 716 | (2CC) | SIGNED | 4 | QWAPSTCT | COUNT OF POSTS TO BE ISSUED. |
| 720 | (2D0) | SIGNED | 4 | QWASERCT | COUNT OF SYSEVENT-RLSES TO BE ISSUED. |
| 724 | (2D4) | ADDRESS | 4 | QWASEHAD | ADDRESS OF FIRST QEL TO BE TARGET OF SYSEVENT-HOLD. |
| 728 | (2D8) | ADDRESS | 4 | QWAPSTAD | ADDRESS OF FIRST QEL TO BE TARGET OF POST. |
| 732 | (2DC) | ADDRESS | 4 | QWASERAD | ADDRESS OF FIRST QEL TO BE TARGET OF SYSEVENT-RLSE. |
| 736 | (2E0) | CHARACTER | 32 | QWACL2B | BEGINNING OF SECOND QWA SECTION THAT IS CLEARED AT BEGINNING OF ENQ OR DEQ REQUEST |
| 736 | (2E0) | CHARACTER | 24 | QWANWPPEL | BEGINNING OF PARAMETERS FROM NEW-FORMAT PEL-PREFIX. THIS FIELD IS SENT TO OTHER SYSTEMS IN FIELDS QWBXRSA3 AND QWBXR3LN OF MAPPING MACRO ISGQWB. |
| 736 | (2E0) | ADDRESS | 4 | QWANPTCB | TCB-ADDRESS OR ZERO. |
| 740 | (2E4) | ADDRESS | 4 | QWANPECB | ECB-ADDRESS OR ZERO. |
| 744 | (2E8) | ADDRESS | 4 | QWANPMAS | MASID-OPERAND OR ZERO. |
| 748 | (2EC) | ADDRESS | 4 | QWANPMTC | MTCB-OPERAND OR ZERO. |
| 752 | (2F0) | CHARACTER | 8 | QWARSVC4 | RESERVED. |

QWA Constants

| Offsets | | | | | |
|---------|-------|------------|-----|------------------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 760 | (2F8) | CHARACTER | 0 | QWANPEND | END OF PARAMETERS. |
| 760 | (2F8) | BITSTRING | 1 | QWAFLAG9 | FLAG-BYTE |
| | | 1... | | QWA9CNPP | COPY NEW-FORMAT PEL-PREFIX FLAG. USED BY ISGGQWBI. |
| | | .1.. | | QWA9DSTL | DEFERRED-STEAL NEEDED. USED BY XDEQQEL SUBROUTINE OF ISGGNQDQ. |
| | | ..1. | | QWA9RSV6 | RESERVED |
| | | ...1 | | QWA9RSV5 | RESERVED |
| | | 1... | | QWA9RSV4 | RESERVED |
| | |1.. | | QWA9RSV3 | RESERVED |
| | |1. | | QWA9RSV2 | RESERVED |
| | |1 | | QWA9RSV1 | RESERVED |
| 761 | (2F9) | CHARACTER | 7 | QWARSVD6 | RESERVED |
| 768 | (300) | CHARACTER | 344 | * | Reserved |
| 1112 | (458) | CHARACTER | 8 | QWALRNLC | Time stamp of last RNL change obtained from GvtLRnIC and subsequently checked later to see if an RNL change occurred across the window where locks were dropped in ISGGPC |
| 1120 | (460) | SIGNED | 4 | QWACONREQCOUNT | Count used to set ASSBCREQ or ASSBCRQA, and then set to its negative to represent the algebraic adjustment required to back out the count for recovery purposes. |
| 1124 | (464) | CHARACTER | 4 | * | Reserved |
| 1128 | (468) | UNSIGNED | 4 | QWAGRSALET | set by ISGGPC and used by ISGGNX to reference the Qwa in the GRS address space after the CMSET to home. |
| 1132 | (46C) | SIGNED | 4 | QWAQXBRECDECCNT | used by ISGGPC recovery to decrement the Qxb list count |
| 1136 | (470) | CHARACTER | 16 | QWAREQTOKEN | Request token for exits |
| 1152 | (480) | UNSIGNED | 4 | QWAEXITYPE | Exit to call, either batch, queued1, or EndOfQcb |
| 1156 | (484) | UNSIGNED | 4 | QWA#XITPELS | Number of non-step PELS for exit processing |
| 1160 | (488) | UNSIGNED | 4 | QWATOTALRNAMELENGTH | total number of bytes of storage needed to contain all of the non-step rnames |
| 1164 | (48C) | ADDRESS | 4 | QWARET@ | Next sequential instruction following the ENQ/DEQ request |
| 1168 | (490) | CHARACTER | 8 | * | Reserved |
| 1176 | (498) | CHARACTER | 12 | QWACMSXM | XMSAVE area for CMSET |
| 1188 | (4A4) | ADDRESS | 4 | QWAUCBP@ | UCB prefix address - used for DEQ of a RESERVE |
| 1192 | (4A8) | UNSIGNED | 4 | QWARSNCD | Reason code for QWAERR |
| 1196 | (4AC) | UNSIGNED | 4 | QWADEQSAVEDLWCDECVALUE | Used by ISGGNQDQ to save the value to decrement the QXBLWC by |
| 1200 | (4B0) | CHARACTER | 0 | QWAEND3 | END QWA |

QWA Constants

| Len | Type | Value | Name | Description |
|-----|---------|-------|----------------|---------------------------------|
| 4 | DECIMAL | 1 | QWAPGFMS | QWAPGRFN FUNCTION IS MASID-SCAN |
| 4 | DECIMAL | 2 | QWAPGFEQ | QWAPGRFN FUNCTION IS ENQ |
| 4 | DECIMAL | 3 | QWAPGFDQ | QWAPGRFN FUNCTION IS DEQ |
| 4 | DECIMAL | 1200 | QWA_KLENGTH | |
| 4 | DECIMAL | 1 | QWA_KBATCH | |
| 4 | DECIMAL | 2 | QWA_KQUEUED1 | |
| 4 | DECIMAL | 3 | QWA_KENDOFLQCB | |

QWA Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|------------------------|------------|-----------|---------------------|------------|-----------|
| QWA | 0 | | QWAGLBLQ | 32 | 80 |
| QWA#XITPELS | 484 | | QWAGLBLR | 48 | |
| QWAABDMC | 1D | 02 | QWAGLOBALSQUEUED | | |
| QWAABENDCD | AE | | | 33 | 08 |
| QWAASCB | 40 | | QWAGPMAS | 2BA | |
| QWAASID | 3E | | QWAGRES | 1E | |
| QWAAUTH | 1D | 20 | QWAGRP13 | 240 | |
| QWABADML | 31 | 80 | QWAGRSALET | 468 | |
| QWABASIC | 4 | | QWAGRSL | 30 | 10 |
| QWACALLGERTS | 33 | 10 | QWAGSA | 8C | |
| QWACCODE | 250 | | QWAGVTAD | B0 | |
| QWACCRV1 | 253 | | QWAHASH | 80 | |
| QWACIQWB | 78 | | QWAHOLD | 32 | 20 |
| QWACLR2B | 2E0 | | QWAID | 0 | |
| QWACMS | 30 | 80 | QWAIGNOR | 1A | 40 |
| QWACMSXM | 498 | | QWAIN | 1C | 08 |
| QWACNFY@ | A4 | | QWAJOBNM | 34 | |
| QWACOMPC | 250 | | QWAJSTEP | 24C | 80 |
| QWACONREQCOUNT | | | QWAKEY | 8 | |
| | 460 | | QWAKEYNB | 8 | F0 |
| QWACOQWB | 74 | | QWALIVEEXITS | AD | |
| QWACPELR | 54 | | QWALNGWT | 1C | 04 |
| QWACSYID | 32 | 08 | QWALOCLR | 44 | |
| QWACSYS | 62 | | QWALRNLC | 458 | |
| QWADEQSAVEDLWCDECVALUE | | | QWALSTRQ | 30 | 01 |
| | 4AC | | QWAMFGS | 19 | |
| QWADMGE | 31 | 40 | QWAMIXR | 1D | 80 |
| QWADPL | 90 | | QWAMOD24 | 32 | 02 |
| QWADSTAD | 2C0 | | QWAMQLAD | 2BC | |
| QWAECEBA | 20 | | QWAMRBQ | 14 | |
| QWAECEBF | 1D | 08 | QWAMTDQ | 1C | 20 |
| QWAEND1 | 34 | | QWAMVCP | 31 | 02 |
| QWAEND2 | C0 | | QWANCEL | 0 | |
| QWAEND3 | 4B0 | | QWANEEDTOCALLQ1EXIT | | |
| QWAEOL | 1A | 80 | | AC | 40 |
| QWAERR | 18 | | QWANMESZ | 5C | |
| QWAEXITS | AC | | QWANOENQ | 31 | 01 |
| QWAEXITSTATUS | | | QWANPECB | 2E4 | |
| | AC | | QWANPEND | 2F8 | |
| QWAEXITSTATUSKNOWN | | | QWANPMAS | 2E8 | |
| | AC | 80 | QWANPMT | 2EC | |
| QWAEXITTYPE | 480 | | QWANPTCB | 2E0 | |
| QWAE1R13 | 23C | | QWANQAR@ | A8 | |
| QWAFDQS | 19 | 40 | QWANSLOT | 7C | |
| QWAFDQ | 19 | 80 | QWANWPEL | 2E0 | |
| QWAFLAG1 | 1C | | QWANXB | AD | 40 |
| QWAFLAG2 | 1D | | QWANXLQD | AD | 08 |
| QWAFLAG3 | 30 | | QWANXNQ | AD | 80 |
| QWAFLAG4 | 31 | | QWANXQ1X | AD | 20 |
| QWAFLAG5 | 32 | | QWAORIGN | 3C | |
| QWAFLAG6 | 33 | | QWAPC | 1C | 02 |
| QWAFLAG7 | 2B8 | | QWAPCENQ | 30 | 02 |
| QWAFLAG8 | 2B9 | | QWAPEL@ | BC | |
| QWAFLAG9 | 2F8 | | QWAPELA | 4 | |
| QWAFMTVL | 2C6 | | QWAPFLAG | 1B | |
| QWAFQEL | 70 | | QWAPFLGS | 1A | |
| QWAFQWB | 84 | | QWAPGRFN | 2C4 | |
| QWAFREEC | 50 | | QWAPGROA | 2B8 | |
| QWAFRR | 30 | 40 | QWAPGRWA | 278 | |
| QWAGBLRS | 32 | 01 | QWAPHLDR | 32 | 04 |
| QWAGEN1 | 1A | 04 | QWAPLAST | 1A | |
| QWAGEN2 | 1A | 02 | QWAPPELE | 88 | |
| QWAGLBL | 1D | 10 | QWAPRMSZ | 58 | |

QWA Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------------|------------|-----------|---------------------|------------|-----------|
| QWAPRNEEDED | 33 | 01 | QWASMC | 1C | 40 |
| QWAPSTAD | 2D8 | | QWASPOST | 1C | 10 |
| QWAPSTCT | 2CC | | QWASTLC | 1C | 80 |
| QWAPURG | 1C | 01 | QWASTPMC | 1B | 10 |
| QWAQEL@ | B8 | | QWASTPNM | 244 | |
| QWAQWB@ | B4 | | QWASVC56 | 1D | 04 |
| QWAQWBA | 20 | | QWASVRBA | 28 | |
| QWAQWBF | 68 | | QWASYNCC | 1D | 01 |
| QWAQWBHS | 64 | | QWASYSID | 3C | |
| QWAQWBL | 6C | | QWASYSMC | 1B | 20 |
| QWAQWBS | 4C | | QWAS1R14 | 22C | |
| QWAQWBSZ | 60 | | QWAS2R14 | 230 | |
| QWAQXB | 2C | | QWAS3R14 | 234 | |
| QWAQXBO | 32 | 10 | QWAS4R14 | 238 | |
| QWAQXBOG | 33 | 02 | QWATCBA | 24 | |
| QWAQXBRECECCNT | | | QWATCBF | 1A | 01 |
| | 46C | | QWATCBFA | 1D | 40 |
| QWARB | 254 | | QWATOTALRNAMELENGTH | | |
| QWARDA | 34 | | | 488 | |
| QWAREQLL | 30 | 20 | QWATRMRM | 244 | |
| QWAREQTOKEN | 470 | | QWAUCBP@ | 4A4 | |
| QWARES1 | 1A | 20 | QWAWAIT | 31 | 04 |
| QWARET@ | 48C | | QWAWAITN | 31 | 20 |
| QWARETRY | 9 | | QWAWORK1 | C0 | |
| QWARET1 | 1B | 04 | QWA1DEQ | 31 | 10 |
| QWARET2 | 1B | 02 | QWA3ERSQ | 30 | 08 |
| QWARET3 | 1B | 01 | QWA4RSV1 | 31 | 08 |
| QWARMC | 1C | 40 | QWA6ECBZ | 33 | 40 |
| QWARMFLG | 24C | | QWA6GERT | 33 | 20 |
| QWARMFP | 32 | 40 | QWA7ABMR | 2B8 | 01 |
| QWARMRV1 | 24C | 01 | QWA7AURC | 2B8 | 40 |
| QWARMRV2 | 24C | 02 | QWA7CHGA | 2B8 | 20 |
| QWARMRV3 | 24C | 04 | QWA7COEX | 2B8 | 02 |
| QWARMRV4 | 24C | 08 | QWA7HOLD | 2B8 | 10 |
| QWARMRV5 | 24C | 10 | QWA7OWNR | 2B8 | 80 |
| QWARMRV6 | 24C | 20 | QWA7POST | 2B8 | 08 |
| QWARMRV7 | 24C | 40 | QWA7RLSE | 2B8 | 04 |
| QWARMR01 | 24D | | QWA8CNCH | 2B9 | 10 |
| QWARNLSCHANGED | | | QWA8CNEN | 2B9 | 08 |
| | 33 | 04 | QWA8CNST | 2B9 | 20 |
| QWARQDMG | 30 | 04 | QWA8DCVT | 2B9 | 40 |
| QWARSA | 14 | | QWA8EXSH | 2B9 | 80 |
| QWARSA2 | 34 | | QWA8RSV1 | 2B9 | 01 |
| QWARSNCD | 4A8 | | QWA8RSV2 | 2B9 | 02 |
| QWARSVC4 | 2F0 | | QWA8RSV3 | 2B9 | 04 |
| QWARSVD3 | A | | QWA9CNPP | 2F8 | 80 |
| QWARSVD5 | 2C5 | | QWA9DSTL | 2F8 | 40 |
| QWARSVD6 | 2F9 | | QWA9RSV1 | 2F8 | 01 |
| QWARSVSP | B4 | | QWA9RSV2 | 2F8 | 02 |
| QWARUBTM | 258 | | QWA9RSV3 | 2F8 | 04 |
| QWAR15SW | 33 | 80 | QWA9RSV4 | 2F8 | 08 |
| QWASAVE | 1A | 08 | QWA9RSV5 | 2F8 | 10 |
| QWASAVE1 | C4 | | QWA9RSV6 | 2F8 | 20 |
| QWASAVE2 | 10C | | | | |
| QWASAVE3 | 154 | | | | |
| QWASAVE4 | 19C | | | | |
| QWASAVE5 | 1E4 | | | | |
| QWASCPE1 | 1B | 40 | | | |
| QWASCPE2 | 1B | 08 | | | |
| QWASEHAD | 2D4 | | | | |
| QWASEHCT | 2C8 | | | | |
| QWASERAD | 2DC | | | | |
| QWASERCT | 2D0 | | | | |
| QWASHARE | 1B | 80 | | | |
| QWASHR | 1A | 10 | | | |

QWB Heading Information

Common Name: QUEUE WORK BLOCK
Macro ID: ISGQWB
DSECT Name: QWB, QWBX, QWBE
Owning Component: Global Resource Serialization (SCSDS)
Eye-Catcher ID: None
Storage Attributes: Subpool: 127 (private area QWBs) or 245 (the SQA QWB)
 Key: 0
 Residency: Above 16M line
Size: FIXED LENGTH DEFINED AS FOLLOWS:
 QWB -- X'01F8' bytes
 QWBE -- X'01F8' bytes
 QWBX -- X'0020' bytes
 (NOTE THAT THE SIZE OF QWBPEL IS BASED ON THE MAXIMUM PEL ENTRY SIZE.)
 GRS PRIVATE AREA QWB-S - 504 BYTES
 SQA QWB - 4K BYTES
Created by: GRS PRIVATE AREA QWB-S - OBTAINED BY THE ENQ/DEQ PROCESSING ROUTINES, ISGGQWBI AND ISGGQWB0, FROM THE GRS STORAGE MANAGER.
 SQA QWB - TEMPORARY QWB OBTAINED DURING NIP BY ISGNCBIM AND RECREATED (PERMANENTLY) DURING NIP BY ISGNASIM.
Pointed to by: GRS PRIVATE AREA QWB - QWBHNQWB, QXBQWB
 SQA QWB - GVTSQWB
Serialization: GRS PRIVATE AREA QWB-S - CMS ENQ/DEQ CLASS LOCK.
 NOTE THAT FIELD QWBHMFSGS CAN BE CHANGED BY ROUTINES HOLDING ONLY THE GRS LOCAL LOCK.
 SQA QWB - CMS ENQ/DEQ CLASS LOCK.
Function: USED TO DESCRIBE A GRS RESOURCE REQUEST.

QWB Map

| Offsets | | | | | |
|---------|-----|------------|-----|-----------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 504 | QWB | QUEUE WORK BLOCK |
| 0 | (0) | CHARACTER | 60 | QWBHDR | QWB HEADER |
| 0 | (0) | ADDRESS | 4 | QWBHNQWB | ADDRESS OF NEXT QWB |
| 4 | (4) | CHARACTER | 28 | QWBHRSA | QWB REQUEST SAVE AREA - THIS AREA MAPS TO THE QWARSA |
| 4 | (4) | ADDRESS | 4 | QWBHMRBQ | POINTER TO FIRST MRB IN MESSAGE QUEUE. USED BY THE GRP TO RETURN PURGE MESSAGES TO REQUESTOR. |
| 4 | (4) | ADDRESS | 4 | QWBHNSYN | ADDRESS OF NEXT STEAL SYNCHRONIZATION QWB ON THE ASCB SYNC QUEUE |
| 4 | (4) | CHARACTER | 1 | QWBI4PCT | PFT-COMPRESSION INDICATOR |
| 5 | (5) | CHARACTER | 3 | * | RESERVED |
| 8 | (8) | UNSIGNED | 1 | QWBHERR | FIRST DIGIT OF ABEND CODE |
| 9 | (9) | BITSTRING | 1 | QWBHMFSGS | MISC FLAG BITS. |
| | | 1... .. | | QWBHFFDM | FAST-DEQ-MARK-FLAG. WHEN 1, QWB WAS USED BY THE FAST-DEQ SRB-ROUTINE WHICH SET QELFDTRY ON. |
| | | | | | Serialized with GRS local lock. |
| | | .1... .. | | QWBPCENQREQUEST | |

QWB Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|------------|---|
| Dec | Hex | | | | |
| | | ...1. | | QWBQXBOG | This bit is set ON by PCENQ mainline to indicate that the request was made via an ENQ or DEQ request with Linkage=System. Serialization not required since set before being placed on the GRS QWB Request Queue |
| | | ...1 1111 | | * | indicates that the QXB was obtained by GRP |
| 10 | (A) | UNSIGNED | 2 | QWBHPFLG | RESERVED |
| 10 | (A) | UNSIGNED | 2 | QWBHGLBR | SAVED PEL FLAGS (QWAPLAST AND QWAPFLAG) OR COUNT OF GLOBAL RESOURCES REQUESTED. |
| 10 | (A) | UNSIGNED | 1 | QWBHPFL1 | COUNT OF GLOBAL RESOURCES REQUESTED. VALID ONLY WHEN QWBHSYNC=1. |
| 11 | (B) | UNSIGNED | 1 | QWBHPFL2 | PELLAST FLAG BYTE |
| | | | | | PELFLAG FLAG BYTE |

Comment

THE FOLLOWING FLAGS ARE ACCUMULATED IN THE QWA (QWAFLAG1) BY THE ENQ/DEQ/RESERVE MAINLINE ROUTINE. WHEN A GLOBAL RESOURCE REQUEST IS PROCESSED FROM THE GRP QWAFLAG1 IS MOVED TO QWBHFLG1. THE FLAGS ARE SUBSEQUENTLY MOVED BACK TO THE QWA AFTER THE ENQ/DEQ/RESERVE SVRB IS POST'D BY THE GRP. THEREFORE THE BIT DEFINITIONS OF QWBHFLG1 MUST MATCH THE BIT DEFINITIONS OF QWAFLAG1

End of Comment

| | | | | | |
|----|-----|-----------|---|----------|---|
| 12 | (C) | BITSTRING | 1 | QWBHFLG1 | QWB PROCESS FLAGS |
| | | 1... | | QWBHSTLC | STEAL PROCESSING IS NOW COMPLETE, I.E., DEQ QWB(S) HAVE BEEN PLACED ON THE REQUEST QUEUE IF NECESSARY |
| | | .1.. | | QWBHSMC | INDICATES SET STEP MUST COMPLETE STATUS (on ENQ request only) |
| | | .1.. | | QWBHRMC | INDICATES RESET MUST COMPLETE STATUS (on DEQ or purge request only) |
| | | ..1. | | QWBHMTDQ | MASID-target DEQ. A QEL was DEQ-ed while it is the target of another QEL that has a non-zero QELMASID. |
| | | ...1 | | QWBHSPST | INDICATES SPOST IS NECESSARY |
| | | 1... | | QWBHINT | INDICATES AN INTERNALLY GENERATED ENQ/DEQ/RESERVE REQUEST. THE REQUESTOR WILL NOT BE POSTED. |
| | |1.. | | QWBHLNGW | NOTIFY WAIT THIS IS LONG WAIT |
| | |1. | | QWBHPC | PC HAS BEEN ISSUED |
| | |1 | | QWBHPURG | INDICATES ISGGDEQP HAS PURGED THIS QWB. THIS IS NOTIFICATION TO ISGGNQDQ THAT THE DIRECTED ENQ/DEQ REQUESTOR SHOULD BE ABEND'D. |

Comment

THE FOLLOWING FLAGS ARE INITIALIZED IN THE QWA (QWAFLAG2) BY THE ENQ/DEQ/RESERVE MAINLINE ROUTINE. WHEN A GLOBAL RESOURCE IS REQUESTED, THE FLAGS ARE MOVED TO THE QWB HEADER (QWBHFLG2). THEREFORE THE BIT DEFINITIONS OF QWAFLAG2 MUST MATCH THE BIT DEFINITIONS OF QWBHFLG2.

End of Comment

| | | | | | |
|----|-----|-----------|---|----------|--|
| 13 | (D) | BITSTRING | 1 | QWBHFLG2 | QWB STATUS FLAGS |
| | | 1... | | QWBHMIXR | MIXED RESOURCE REQUEST |
| | | .1.. | | QWBHFA | REQUESTING TASK WAS ABENDING WHEN THE REQUEST WAS RECEIVED |
| | | ..1. | | QWBHAUTH | REQUESTOR IS AUTHORIZED |
| | | ...1 | | QWBHGLBL | GLOBAL RESOURCES DEFINED IN THIS QWB |
| | | 1... | | QWBHECBF | ECB SPECIFIED |
| | |1.. | | QWBHSV56 | ENQ/RESERVE REQUEST |
| | |1. | | QWBHABMC | THE TASK OR ADDRESS SPACE TERMINATED IN MC - CHAIN MRB TO QWAMRBQ. |
| | |1 | | QWBHSYCC | SYNCHRONIZATION COMPLETE |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---|------|------------|-----|------------|---|
| Dec | Hex | | | | |
| 14 | (E) | UNSIGNED | 2 | QWBHGRES | FOR ENQ REQUESTS, THE NUMBER OF GLOBAL RESOURCES FOR WHICH NO QEL HAS BEEN PLACED IN QUEUE. FOR DEQ REQUEST, THE NUMBER OF GLOBAL RESOURCES FOR WHICH A QEL HAS BEEN REMOVED FROM QUEUE |
| 16 | (10) | ADDRESS | 4 | QWBHECBA | ADDRESS OF INPUT ECB |
| 16 | (10) | ADDRESS | 4 | QWBHSEQA | Address of the specific ENQ request QWB to be DEQed. Set when QWBHDENQ is '11'b. |
| 20 | (14) | ADDRESS | 4 | QWBHTCB | ADDRESS OF REQUESTOR-S (OR DIRECTED) TCB |
| 24 | (18) | ADDRESS | 4 | QWBHRB | ADDRESS OF WAITING RB |
| 28 | (1C) | ADDRESS | 4 | QWBHQXB | CONTAINS THE ADDRESS OF A LOCAL QXB WHEN A MIXED RESOURCE REQUEST IS PRESENT (SAVED BY MAINLINE ENQ PRIOR TO SUSPENSION) OR CONTAINS THE ADDRESS OF A GLOBAL QXB WHEN ALL GLOBALS ARE PRESENT (SAVED BY THE GRP). |
| <div>Comment</div> <p>THE FOLLOWING FLAGS ARE USED BY THE GRP TO ROUTE CONTROL TO THE APPROPRIATE GLOBAL PROCESSING ROUTINE AND BY ISGGNQDQ TO DETERMINE WHETHER A QWBX IS PRESENT.</p> <div>End of Comment</div> | | | | | |
| 32 | (20) | BITSTRING | 1 | QWBHFLG3 | QWB REQUEST FLAGS |
| | | 11.. | | QWBHDENQ | When both bits are on, this is a DEQ of a specific ENQ request |
| | | 1... | | QWBHENQ | ENQ/RESERVE REQUEST |
| | | .1.. | | QWBHDEQ | DEQ REQUEST |
| | | ..1. | | QWBHDTCB | DEQ BY TCB |
| | | ...1 | | QWBHDAS | DEQ BY ASID |
| | | 1... | | QWBHDSYS | DEQ BY SYSID |
| | |1.. | | QWBHSYNC | SYNCHRONIZATION REQUEST |
| | |1. | | QWBHXTNP | IF 1, THIS QWB HAS A QWBX THAT HAS ADDITIONAL INFORMATION THAT DOES NOT FIT IN THE QWBH. THIS BIT MAY BE CLEARED IF THE QWB IS PFT- COMPRESSED AND SENT TO ANOTHER SYSTEM. QWBHXTNP MAY BE 1 IN THE ORIGINATING SYSTEM AND 0 IN THE QWB OF A RECEIVING SYSTEM. NOTE THAT THE QWBX IS DROPPED IF QWBHXTNP IS CHANGED TO 0. |
| | |1 | | QWBHECBZ | ECB-ZERO FLAG. IF 1, FLAG QWA6ECBZ WAS ON WHEN THIS QWB WAS PLACED ON THE REQUEST QUEUE. |
| 33 | (21) | ADDRESS | 1 | QWBHNWPS | NUMBER OF 4-BYTE WORDS IN PEL/PELX SECTION THAT BEGINS AT QWBPEL. THIS BYTE MAY BE SET TO ZERO IF THE QWB IS PFT- COMPRESSED AND SENT TO ANOTHER SYSTEM. QWBHNWPS MAY BE NON- ZERO IN THE ORIGINATING SYSTEM AND 0 IN THE QWB OF A RECEIVING SYSTEM. NOTE THAT THE QWBX IS DROPPED IF QWBHXTNP IS CHANGED TO 0 |
| 33 | (21) | UNSIGNED | 1 | QWBDRUDE | Reason code indicating why this QWB was put on the damaged chain. |
| 34 | (22) | CHARACTER | 2 | QWBHRSV1 | RESERVED |
| 36 | (24) | CHARACTER | 8 | QWBDCLK | Clock Value when this QWB was put on the damaged chain. |
| 36 | (24) | ADDRESS | 4 | QWBHSTL | ADDRESS OF THE REQUEST QWB(S) VALID ONLY WHEN QWBHSYNC=1 AND/OR QWBHMIXR=1 AND QWBHFA=1. |
| 36 | (24) | ADDRESS | 4 | QWBHTCBA | DEQ ARGUMENT TCB - VALID ONLY IF THIS IS A TCB DEQ QWB. |
| 40 | (28) | UNSIGNED | 4 | QWBHTRGT | DEQ PURGE TARGET |
| 40 | (28) | UNSIGNED | 2 | QWBHDASY | DEQ ARGUMENT SYSID - VALID ONLY IF THIS IS A SYSID, ASID OR TCB DEQ QWB |
| 42 | (2A) | UNSIGNED | 2 | QWBHDAAS | DEQ ARGUMENT ASID - VALID ONLY IF THIS IS AN ASID OR TCB DEQ QWB. |
| 44 | (2C) | CHARACTER | 16 | QWBHRSA2 | SECOND REQUEST SAVE AREA |
| 44 | (2C) | CHARACTER | 8 | QWBHJBNM | JOBNAME/USERID OF REQUESTOR |
| 52 | (34) | UNSIGNED | 4 | QWBHORIG | ORIGIN OF REQUESTOR |
| 52 | (34) | UNSIGNED | 2 | QWBHSYID | SYSID OF REQUESTOR |

QWB Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|--|-------|------------|-----|------------|--|
| Dec | Hex | | | | |
| 54 | (36) | UNSIGNED | 2 | QWBHASID | ASID OF REQUESTOR |
| 56 | (38) | ADDRESS | 4 | QWBHASCB | IF ENQ/DEQ/RESERVE, ASCB ADDRESS OF REQUESTOR. NOTE THAT IF THE HIGH-ORDER BIT IS SET, AN ISGQSCAN INFORMATION ROUTINE EXISTS FOR THE ADDRESS SPACE. IF PURGE REQUEST, ASCB ADDRESS OF TARGET ASCB. VALID ONLY ON ORIGINATING SYSTEM |
| | | | | | Comment |
| SMPL SECTION | | | | | |
| | | | | | End of Comment |
| 60 | (3C) | CHARACTER | 96 | QWB SMPL | DEFINES THE STORAGE REQUIRED TO SUPPORT THE QWB, QXB, QEL AND THE 3 QCB SIZES AS SMPL ENTRIES. NOTE IF QWBHMXR=1 AND QWBHFA=1, THE SMPL CONTAINS ENTRIES FOR LOCAL AND GLOBAL CONTROL BLOCKS (THIS AREA IS EXPANDED BY ISGGNQDQ). |
| 60 | (3C) | CHARACTER | 16 | QWBSQWB | SMPL QWB ENTRY |
| 76 | (4C) | CHARACTER | 16 | QWBSQXB | SMPL QXB ENTRY |
| 92 | (5C) | CHARACTER | 16 | QWBSQEL | SMPL QEL ENTRY |
| 108 | (6C) | CHARACTER | 16 | QWBSQCB1 | SMPL QCB SIZE1 ENTRY |
| 124 | (7C) | CHARACTER | 16 | QWBSQCB2 | SMPL QCB SIZE2 ENTRY |
| 140 | (8C) | CHARACTER | 16 | QWBSQCB3 | SMPL QCB SIZE3 ENTRY |
| 156 | (9C) | CHARACTER | 308 | QWBBASIC | QWB BASIC SECTION - COMMON TO BOTH A QWB AND A QWB EXTENSION. IF DEFINED AS A QWB EXTENSION, THIS AREA MAPS TO THE BEGINNING OF THE QWB (I.E., QWBHDR - THE HEADER AND SMPL DO NOT EXIST IN A QWB EXTENSION). |
| 156 | (9C) | ADDRESS | 4 | QWBEXTA | ADDRESS OF QWB EXTENSION (I.E., NEXT BASIC SECTION DESCRIBING THIS REQUEST) |
| 160 | (A0) | CHARACTER | 304 | QWBPEL | Area containing PELs for this request. This must be large enough to contain the biggest possible PEL/PELX pair (ie, one with a 255-byte RNAME). Note that the PEL prefix is not included in this field. |
| 464 | (1D0) | CHARACTER | 0 | QWBBEND | END OF QWBBASIC |
| | | | | | Comment |
| QWB tail mapping. Uses the extra forty bytes available at the end of the QWB that were previously wasted. (ie, even with the extra forty bytes, eight QWBs still fit in one PEXB). | | | | | |
| | | | | | End of Comment |
| 464 | (1D0) | CHARACTER | 40 | QWB TAIL | Maps the QWB tail section - exists only in a Head-QWB in GRS private storage. Never copied to the QWA or RSA or anywhere else |
| 464 | (1D0) | UNSIGNED | 4 | QWB RACE | Fullword containing data related to the race that occurs when a requestor can be POSTed before global processing completes |
| 464 | (1D0) | BITSTRING | 1 | QWB RFLGS | Race flags. All flags in this byte are set via Compare and Swap |
| | | 1... | | QWB RPOST | Requestor POSTed flag. When 1, requestors SVRB has been POSTed, and should not be POSTed again. |
| | | .1.. | | QWB RSEEN | QWB seen flag. When 1, this QWB has been seen by global processing, and can be freed by the requestor, or has been seen by the requestor and can be freed by global processing |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|-----------------------|--|
| Dec | Hex | | | | |
| | | ..1. | | QWBRWAITGO | QWB Wait Go bit. Mainline will attempt to CS set this bit ON to indicate that it is waiting for the post from a global processor (ISGGRP00, ISGWENQ, ISGWDEQ, etc.). The global processor will attempt to CS set this bit ON to indicate that requestor may GO (not wait). If mainline wins the the race and sets the bit ON, mainline will wait and the global processor will fail in its attempt to set the bit and will do an RB POST to resume the requestor. If, on the other hand, the global processor wins the race and sets the bit ON, it will not to the RB POST and mainline will fail in its attempt to CS the bit ON and will know to not wait (GO). |
| | | ...1 1111 | | * | Reserved |
| 465 | (1D1) | CHARACTER | 3 | QWBTRSV1 | Reserved |
| 468 | (1D4) | CHARACTER | 24 | QWBSTAR | Fields used only in GRS=STAR mode |
| 468 | (1D4) | ADDRESS | 4 | QWB_QCBSAVAILQ | Queue of QCB star mode extensions, to be used with the cells in QWBSMPL when building a new QCB |
| 472 | (1D8) | CHARACTER | 16 | QWB_QORECOUNTS | Counts used to keep track of of QOREs generated for this QWB |
| 472 | (1D8) | UNSIGNED | 4 | QWB_TOTAL#QORES | The total number of QOREs built for this QWB |
| 476 | (1DC) | UNSIGNED | 4 | QWB_QOREENTRYCOUNT | The number of QOREs that have finished their Entry processing |
| 480 | (1E0) | UNSIGNED | 4 | QWB_QORELOCKINGCOUNT | The number of QOREs that have finished their Locking processing |
| 484 | (1E4) | UNSIGNED | 4 | QWB_QORECOMPLETECOUNT | The number of QOREs that have finished their Completion processing |
| 488 | (1E8) | BITSTRING | 1 | QWB_SFLAGS | Flags used in star mode |
| | | 1... | | QWB_ABEND138 | Non-zero return code present in unconditional ENQ |
| | | .111 1111 | | * | Reserved |
| 489 | (1E9) | CHARACTER | 3 | * | Reserved |
| 492 | (1EC) | CHARACTER | 4 | QWB DIAG | |
| 492 | (1EC) | CHARACTER | 1 | QWB DIAG1 | |
| | | 1... | | QWBNQDQNOTGLOBAL | |
| | | .1.. | | QWBNQDQSETWG | |
| | | ..1. | | QWBNQDQDIDNOTSETWG | |
| | | ...1 | | QWBNQDQBACKFROMWAIT | |
| | | 1... | | QWBPOSTREQSETWG | |
| | |1.. | | QWBPOSTREQDIDNOTSETWG | |
| | |1. | | QWBPOSTREQDOINGPOST | |
| 496 | (1F0) | ADDRESS | 4 | QWBPECBA | Address of ECB to Post |
| 500 | (1F4) | CHARACTER | 4 | QWBTRSV2 | Reserved |
| 504 | (1F8) | CHARACTER | 0 | QWBEND | END OF QWB |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 504 | QWBE | Maps a QWB extension. Pointed to by QWBEXTA in a 'head-QWB', and by QWBEXTA in the previous extension. |
| 0 | (0) | CHARACTER | 464 | QWBEBASC | Basic section of QWB extension |
| 0 | (0) | ADDRESS | 4 | QWBEXTA | Address of next QWB extension |
| 4 | (4) | CHARACTER | 460 | QWBPEL | Holds array of PEL and PELX information |
| 464 | (1D0) | CHARACTER | 0 | QWBEBEND | End of QWBEBASC |
| 464 | (1D0) | CHARACTER | 40 | QWBERSV1 | Reserved. |

QWB Constants • QWB Cross Reference

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 32 | QWBX | QUEUE WORK BLOCK EXTENSION. OCCUPIES SPACE MAPPED BY THE QWB, IN THE FIRST QWB OF THE REQUEST. IT IS PRESENT ONLY IF FLAG QWBHXTNP IS ON. IT FOLLOWS THE PELX(S) OF THE FIRST QWB. THIS SECTION MAY BE DROPPED IN A RECEIVING SYSTEM IF THE QWB IS PFT- COMPRESSED INTO A QNP ON THE ORIGINATING SYSTEM AND THEN RE-EXPANDED FROM A QNP TO A QWB ON A RECEIVING SYSTEM. PFT-COMPRESSSION DROPS THE QWBX. |
| 0 | (0) | UNSIGNED | 1 | QWBXR3LN | LENGTH OF DATA IN QWBXRSA3. |
| 1 | (1) | CHARACTER | 7 | QWBXRSV3 | RESERVED. |
| 8 | (8) | CHARACTER | 24 | QWBXRSA3 | SPACE ALLOWED FOR SECTION QWANWPEL OF THE QWA. THIS FIELD CAN BE EXPANDED IF FIELDS ARE ADDED TO QWA FIELD QWANWPEL, BECAUSE QWBXR3LN DEFINES THE LENGTH OF DATA THAT WAS PLACED IN THIS FIELD. QWBXR3LN IS SET BY THE SYSTEM THAT PLACES DATA IN THIS FIELD. |
| 32 | (20) | CHARACTER | 0 | QWBXEND | END OF QWBX. |

QWB Constants

| Len | Type | Value | Name | Description |
|-----------------------------|---------|-------|---------------------|---|
| Comment | | | | |
| QWB miscellaneous constants | | | | |
| End of Comment | | | | |
| 4 | DECIMAL | 464 | QWB_KRINGSIZE | Old size of the QWB, as used by the ring processing code |
| 1 | DECIMAL | 6 | QWBSMPLN | NUMBER OF SMPL ENTRIES DEFINED BY THIS QWB |
| 1 | HEX | 04 | QWBDSYID | DAMAGED REASON CODE FOR WHEN THE SYSID FOR THE QWB (QWBHSYID) IS NOT DEFINED IN THE COMPLEX |
| 0 | BIT | 11 | QWB_KDEQSPECIFICENQ | Used to set/determine QWBHDENQ for the DEQ of a specific ENQ |
| 4 | DECIMAL | 4096 | QWB_KSQALENGTH | Length of SQA QWB |

QWB Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|-----------------------|------------|-----------|-----------|------------|-----------|
| QWB | 0 | | QWBDCCLK | 24 | |
| QWB_ABEND138 | 1E8 | 80 | QWBDIAG | 1EC | |
| QWB_QCBSAVAILQ | 1D4 | | QWBDIAG1 | 1EC | |
| QWB_QORECOMPLETECOUNT | 1E4 | | QWBDRCADE | 21 | |
| QWB_QORECOUNTS | 1D8 | | QWBE | 0 | |
| QWB_QOREENTRYCOUNT | 1DC | | QWBEBASC | 0 | |
| QWB_QORELOCKINGCOUNT | 1E0 | | QWBEBEND | 1D0 | |
| QWB_SFLAGS | 1E8 | | QWBEEXTA | 0 | |
| QWB_TOTAL#QORES | 1D8 | | QWBEND | 1F8 | |
| QWBBASIC | 9C | | QWBEPEL | 4 | |
| QWBBEND | 1D0 | | QWBERSV1 | 1D0 | |
| | | | QWBEXTA | 9C | |
| | | | QWBHABMC | D | 02 |
| | | | QWBHASCB | 38 | |
| | | | QWBHASID | 36 | |
| | | | QWBHAUTH | D | 20 |
| | | | QWBHDAAS | 2A | |

| Name | Hex Offset | Hex Value |
|---------------------|------------|-----------|
| QWBHDAS | 20 | 10 |
| QWBHDASY | 28 | |
| QWBHDENQ | 20 | C0 |
| QWBHDEQ | 20 | 40 |
| QWBHDR | 0 | |
| QWBHDSYS | 20 | 08 |
| QWBHDTCB | 20 | 20 |
| QWBHECBA | 10 | |
| QWBHECBF | D | 08 |
| QWBHECBZ | 20 | 01 |
| QWBHENQ | 20 | 80 |
| QWBHERR | 8 | |
| QWBHFA | D | 40 |
| QWBHFFDM | 9 | 80 |
| QWBHFLG1 | C | |
| QWBHFLG2 | D | |
| QWBHFLG3 | 20 | |
| QWBHGLBL | D | 10 |
| QWBHGLBR | A | |
| QWBHGRES | E | |
| QWBHINT | C | 08 |
| QWBHJBNM | 2C | |
| QWBHLNGW | C | 04 |
| QWBHMFSG | 9 | |
| QWBHMIXR | D | 80 |
| QWBHMRBQ | 4 | |
| QWBHMTDQ | C | 20 |
| QWBHNQWB | 0 | |
| QWBHNSYN | 4 | |
| QWBHNWPS | 21 | |
| QWBHORIG | 34 | |
| QWBHPC | C | 02 |
| QWBHPFLG | A | |
| QWBHPFL1 | A | |
| QWBHPFL2 | B | |
| QWBHPURG | C | 01 |
| QWBHQXB | 1C | |
| QWBHRB | 18 | |
| QWBHRMC | C | 40 |
| QWBHRSA | 4 | |
| QWBHRSA2 | 2C | |
| QWBHRSV1 | 22 | |
| QWBHSEQA | 10 | |
| QWBHSMC | C | 40 |
| QWBHSPST | C | 10 |
| QWBHSTL | 24 | |
| QWBHSTLC | C | 80 |
| QWBHSV56 | D | 04 |
| QWBHSYCC | D | 01 |
| QWBHSYID | 34 | |
| QWBHSYNC | 20 | 04 |
| QWBHTCB | 14 | |
| QWBHTCBA | 24 | |
| QWBHTRGT | 28 | |
| QWBHXTNP | 20 | 02 |
| QWB14PCT | 4 | |
| QWBNQDQBACKFROMWAIT | | |
| | 1EC | 10 |
| QWBNQDQDIDNOTSETWG | | |
| | 1EC | 20 |
| QWBNQDQNOTGLOBAL | | |
| | 1EC | 80 |
| QWBNQDQSETWG | 1EC | 40 |
| QWBPCENQREQUEST | | |
| | 9 | 40 |

| Name | Hex Offset | Hex Value |
|-----------------------|------------|-----------|
| QWBPECBA | 1F0 | |
| QWBPEL | A0 | |
| QWBPOSTREQDIDNOTSETWG | | |
| | 1EC | 04 |
| QWBPOSTREQDOINGPOST | | |
| | 1EC | 02 |
| QWBPOSTREQSETWG | | |
| | 1EC | 08 |
| QWBQXBOG | 9 | 20 |
| QWBRACE | 1D0 | |
| QWBRLGS | 1D0 | |
| QWBRPOST | 1D0 | 80 |
| QWBRSEEN | 1D0 | 40 |
| QWBRWAITGO | 1D0 | 20 |
| QWBSMPL | 3C | |
| QWBSQCB1 | 6C | |
| QWBSQCB2 | 7C | |
| QWBSQCB3 | 8C | |
| QWBSQEL | 5C | |
| QWBSQWB | 3C | |
| QWBSQXB | 4C | |
| QWBSTAR | 1D4 | |
| QWBTAIL | 1D0 | |
| QWBTRSV1 | 1D1 | |
| QWBTRSV2 | 1F4 | |
| QWBX | 0 | |
| QWBXEND | 20 | |
| QWBXRSA3 | 8 | |
| QWBXRSV3 | 1 | |
| QWBXR3LN | 0 | |

QXB Heading Information

Common Name: QUEUE EXTENSION BLOCK
Macro ID: ISGQXB
DSECT Name: QXB
Owning Component: Global Resource Serialization (SCSDS)
Eye-Catcher ID: None
Storage Attributes: Subpool: 229
 Key: 0
 Residency: Above 16M line
Size: QXB -- X'0020' bytes
Created by: THE ENQ/RESERVE PROCESSING ROUTINES (ISGGNQDQ, ISGGRP00) OBTAIN THE QXB FROM THE STORAGE MANAGER.
Pointed to by: QELQXB, QWBHQXB, QWAQXB
Serialization: LOCAL RESOURCE - THE CMS ENQ/DEQ CLASS LOCK
 GLOBAL RESOURCE - THE GRS LOCAL LOCK
 NOTE - IF THE QXB REPRESENTS A MIXED RESOURCE REQUEST, THE QXB WAITC AND QXBLISTC FIELDS ARE SERIALIZED WITH THE CMSEQDQ LOCK.
Function: CONTAINS THE COMMON DATA THAT DESCRIBES THE GRS REQUEST.

QXB Map

| Offsets | | | | | |
|---------|-----|------------|-----|-----------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 32 | QXB | QUEUE EXTENSION BLOCK |
| 0 | (0) | ADDRESS | 4 | QXBNCELL | pointer to next Qxb when being obtained or freed |
| 0 | (0) | ADDRESS | 4 | QXBTCB | ADDRESS OF THE REQUESTOR-S (OR DIRECTED) TCB |
| 4 | (4) | ADDRESS | 4 | QXBECB | ECB ADDRESS FOR POST OR |
| 4 | (4) | ADDRESS | 4 | QXBSVRB | SVRB ADDRESS FOR POST |
| 8 | (8) | ADDRESS | 4 | QXBQWB | ADDRESS OF QWB WHEN A MIXED RESOURCE REQUEST IS PRESENT. THIS IS USED DURING NIP TO LOCATE THE QWB CONTAINING THIS QXB ADDRESS SO THE QXB ADDRESS CAN BE REPLACED WITH THE MIGRATED QXB ADDRESS |
| 8 | (8) | ADDRESS | 4 | QXBNWPTR | ADDRESS OF THE NEW QXB THAT HAS BEEN MOVED TO THE GRS ADDRESS SPACE |
| 12 | (C) | UNSIGNED | 4 | QXBCSWORD | Compare and Swap Word |
| 12 | (C) | BITSTRING | 1 | QXBFLGS1 | FLAG BYTE 1 |
| | | 1... .. | | QXBMIXR | MIXED RESOURCE REQUEST - CMSEQDQ lock is needed to serialize the QXBLWC counts |
| | | .1.. .. | | QXBNW | QXBNWPTR IS VALID - QXB HAS BEEN MOVED FROM SQA TO THE GRS ADDRESS SPACE |
| | | ..1. | | QXBECBNP | INDICATOR OF A NON-ZERO WAIT COUNT ON A MIXED-RESOURCE REQUEST |
| | | ...1 | | QXBECBP | POST of ECB has been scheduled, an SPOST is necessary when DEQing the last QEL to ensure that the POST completes before the DEQ does |
| | | 1... | | QXBPCENQREQUEST | ENQ LINKAGE=SYSTEM REQUEST This bit is set ON by ISGGNQDQ mainline to indicate that the ENQ request was initiated via an ENQ with LINKAGE=SYSTEM |
| | |1.. | | QXB1RSV4 | RESERVED |
| | |1. | | QXB1RSV5 | RESERVED |
| | |1 | | QXB1RSV6 | RESERVED |
| 13 | (D) | CHARACTER | 1 | QXB DIAG1 | Diagnostics \$\$\$ fix |
| | | 1... .. | | QXBCS01ZEROWC | |

QXB Cross Reference

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|----------------------|--|
| Dec | Hex | | | | |
| | | .1.. | | QXBCS01NONZEROWC | CS 00 made waitcnt zero |
| | | ..1. | | QXBCS05ALREADYPOSTED | CS 00 left WC non-zero |
| | | ...1 | | QXBCS05NONZEROWC | CS 05 |
| | | 1... | | QXBCS05ZEROWC | CS 05 |
| | |1.. | | QXBCS05NOTTHISSYS | CS 05 |
| | |1. | | QXBCS05DOINGPOST | CS 05 |
| | |1 | | QXBCS05DIDTHEPOST | CS 05 |
| 14 | (E) | UNSIGNED | 2 | QXBWAITR | WAIT COUNT - NUMBER OF QELS WAITING FOR RESERVES TO COMPLETE |
| 16 | (10) | UNSIGNED | 4 | QXBLWC | LIST/WAIT Counts |
| 16 | (10) | UNSIGNED | 2 | QXBLISTC | LIST COUNT - NUMBER OF ACTIVE QELS REMAINING IN THE REQUEST |
| 18 | (12) | UNSIGNED | 2 | QXBWAITC | WAIT COUNT - NUMBER OF QELS WAITING FOR RESOURCES |
| 20 | (14) | CHARACTER | 8 | QXBJOBNM | JOBNAME/USERID OF THE REQUESTOR. |
| 28 | (1C) | ADDRESS | 4 | QXBMTCB | VALUE OF MTCB= OPERAND OR ZERO |
| 32 | (20) | CHARACTER | 0 | QXBEND | END OF QXB |

QXB Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------------------|------------|-----------|----------|------------|-----------|
| QXB | 0 | | QXBQWB | 8 | |
| QXBCSWORD | C | | QXBSVRB | 4 | |
| QXBCS01NONZEROWC | D | 40 | QXBTCB | 0 | |
| QXBCS01ZEROWC | D | 80 | QXBWAITC | 12 | |
| QXBCS05ALREADYPOSTED | D | 20 | QXBWAITR | E | |
| QXBCS05DIDTHEPOST | D | 01 | QXB1RSV4 | C | 04 |
| QXBCS05DOINGPOST | D | 02 | QXB1RSV5 | C | 02 |
| QXBCS05NONZEROWC | D | 10 | QXB1RSV6 | C | 01 |
| QXBCS05NOTTHISSYS | D | 04 | | | |
| QXBCS05ZEROWC | D | 08 | | | |
| QXBDIAG1 | D | | | | |
| QXBECB | 4 | | | | |
| QXBECBNP | C | 20 | | | |
| QXBECBP | C | 10 | | | |
| QXBEND | 20 | | | | |
| QXBFLGS1 | C | | | | |
| QXBJOBNM | 14 | | | | |
| QXBLISTC | 10 | | | | |
| QXBLWC | 10 | | | | |
| QXB MIXR | C | 80 | | | |
| QXBMTCB | 1C | | | | |
| QXBNCELL | 0 | | | | |
| QXBNW | C | 40 | | | |
| QXBNWPTR | 8 | | | | |
| QXBPCENQREQUEST | C | 08 | | | |

RAB Heading Information

Common Name: RSM ADDRESS SPACE BLOCK
Macro ID: IARRAB
DSECT Name: RAB
Owning Component: REAL STORAGE MANAGER (SC1CR)
Eye-Catcher ID: RAB
 Offset: 8
 Length: 3 bytes
Storage Attributes: Virtual Storage: YES
 Subpool: 245, EXTENDED SQA (FIXED COMMON) or Nucleus
 Key: 0
 Data Space: NO
 Residency: MUST be above 16 Megabytes virtual
Size: 280 bytes (without the RAX)
Created by: IAXMA
Pointed to by: RABFQPTR FIELD OF THE RAB DATA AREA
 RABBQPTR FIELD OF THE RAB DATA AREA
 RITCRAB FIELD OF THE RIT DATA AREA
 RITRABQF FIELD OF THE RIT DATA AREA
 RITRABQL FIELD OF THE RIT DATA AREA
 RITRRAB FIELD OF THE RIT DATA AREA
 RITRCUR FIELD OF THE RIT DATA AREA
 ASCBRSMA FIELD OF THE ASCB DATA AREA
Serialization: FIELD DEPENDENT
Function: CONTAINS RSM ADDRESS SPACE RELATED INFORMATION

RAB Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 560 | RAB | |
| 0 | (0) | ADDRESS | 4 | RABFQPTR | FORWARD RAB QUEUE POINTER |
| 4 | (4) | ADDRESS | 4 | RABBQPTR | BACKWARD RAB QUEUE POINTER |
| 8 | (8) | CHARACTER | 4 | RABID | RAB CONTROL BLOCK IDENTIFIER |
| 8 | (8) | CHARACTER | 3 | RABIDRAB | EBCDIC CHARACTERS R A B |
| 11 | (B) | CHARACTER | 1 | RABIDTYP | EBCDIC CHARACTER TO IDENTIFY THE TYPE OF ADDRESS SPACE. C FOR COMMON AREA RAB, R FOR RASP RAB, BLANK FOR ALL OTHERS |
| 12 | (C) | BITSTRING | 1 | RABFLGS1 | FLAG BYTE 1 |
| | | 1... | | RABNOTRS | TRAS TO THIS ADDRESS SPACE SHOULD NOT BE DONE |
| | | .1.. | | RABASIT | ADDR SPACE CREATE IN PROGRESS |
| | | ..1. | | RABSWPR | SWAP (OUT OR IN) IN PROGRESS |
| | | ...1 | | RABSWOUT | ADDRESS SPACE IS SWAPPED OUT |
| | | 1... | | RABNLSQA | LSQA IS NOT ACCESSIBLE |
| | |1.. | | RABNPGT | SWAP-IN OF A PGT/XPT FAILED |
| | |1. | | RABBADPT | ADDRESS SPACE CONTAINS A PGT/XPT IN A BAD FRAME |
| | |1 | | RABFLAW | THIS RAB WAS FOUND FLAWED DURING RECOVERY PROCESSING AND WAS DEQUEUED FROM THE RAB QUEUE |
| 13 | (D) | BITSTRING | 1 | RABFLGS2 | FLAG BYTE 2 |
| | | 1... | | RAB2LPU | SECOND LEVEL PREFERRED USER |
| | | .1.. | | RAB1LPU | FIRST LEVEL PREFERRED USER |
| | | ..1. | | RABPAGDS | LSQA SWAPPED TO PAGING DATA SET |
| | | ...1 | | RABREQSW | A SWAP HAS BEEN REQUESTED FOR THIS ADDRESS SPACE |
| | | 1... | | RABVRPTD | PAGE TABLES HAVE BEEN DEALLOCATED FOR THE LAST V=R JOB REQUEST IN THIS ADDRESS SPACE |

RAB Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|---|
| Dec | Hex | | | | |
| 14 | (E) |1.. | 1 | RABLSQAO | AN LSQA PAGE HAS BEEN PAGED OUT |
| | |1.. | | RABTRMIP | ADDRESS TERMINATION IN PROGRESS |
| | |1 | | RABRVRPL | RVR POOL HAS BEEN BUILT |
| | | 1... | | RABFLGS3 | FLAG BYTE 3 |
| | | | | RABBADVP | THE DATA IN ONE OR MORE VDAC PAGES MAY NOT BE AT THE CORRECT LEVEL (SEE RABVFLGA AND RABVFLGB). |
| | | .1.. | | RABSWEST | ADDRESS SPACE SWAPPED TO EXTENDED STORAGE (ESA only, NOT used for ESAME) |
| | | .1.. | | RABDRIM | MIGRATION OF DREF PAGES IS INHIBITED |
| | | ...1 | | RABRMPND | RECONFIGURATION MIGRATION IS PENDING FOR THIS ADDRESS SPACE |
| | | 1... | | RABLSWAP | THIS ADDRESS SPACE IS LOGICALLY SWAPPED OUT |
| | |1.. | | RABSSIPF | SELF-STEAL IN PROGRESS BIT |
| 15 | (F) |1.. | 1 | RABSWIOC | 1, ALL PAGING I/O HAS COMPLETED SO THAT THE SWAPOUT OF THE WORKING SET MAY BEGIN. |
| | |1 | | RABUDDCV | UDD COUNT VERIFICATION SRB TO BE SCHEDULED FOR THIS ADDRESS SPACE |
| | | 1... | | RABFLGS4 | FLAG BYTE 4 |
| | | .1.. | | RABVIOPL | VIO LPID POOL HAS BEEN BUILD |
| | | .1.. | | RABSWASM | SWAP HAS CALLED ASM |
| 16 | (10) | ...1 1111 | 2 | RABHVCQV | HVFQ COUNT VERIFICATION SRB TO BE SCHEDULED FOR THIS ADDRESS SPACE |
| | | | | * | RESERVED |
| 18 | (12) | SIGNED | 1 | RABC0DCT | REMAINING NUMBER OF TIMES THAT A C0D ERROR OF A TYPE FLAGGED IN RABC0DFL WILL BE LOGGED |
| 19 | (13) | 1... | 1 | RABC0DFL | ERROR FLAGS |
| | | .1.. | | RABSTPIN | STORAGE PIN OCCURRED |
| | | .1.. | | RABLSCON | LONG/SHORT FIX CONFLICT ERROR OCCURRED |
| | | ...1 | | RABECBNP | AN ECB COULD NOT BE POSTED AS EXPECTED |
| | | 1... | | RABFOENF | FOE NOT FOUND FOR A NON-ZERO TCB PAGE-FREE |
| | |1.. | | RABASPIN | ADDRESS SPACE HAS BEEN PINNED |
| | |11 | | RABSTLPE | STEAL DISCOVERED A FRAME WITH INCONSISTENT INFORMATION |
| | | | | * | RESERVED |
| | | 1... | | RABVFLGA | VDAC ERROR FLAGS- FLAGS INDICATE WHY RABBADVP IS ON. |
| | | .1.. | | RABVTTD | BADVP ERROR IN DISASSOC. DURING NON-XMEM TCB TERMINATION. |
| 20 | (14) | 1... | 1 | RABVTTXD | BADVP ERROR IN DISASSOC. DURING XMEM TCB TERMINATION. |
| | |1.. | | RABVATD | BADVP ERROR IN DISASSOC. DURING ADDR SPACE TERMINATION. |
| | |1 | | RABVDXD | BADVP ERROR IN DISASSOC. DURING DEFER EXIT PROCESSING. |
| | | 1... | | RABVTTC | BADVP ERROR IN DISASSOC. DURING DEFER EXIT PROCESSING. |
| | |1.. | | RABVTTXC | BADVP ERROR IN COMMIT DURING NON-XMEM TCB TERMINATION. |
| | |1.. | | RABVATC | BADVP ERROR IN COMMIT DURING XMEM TCB TERMINATION. |
| | |1 | | RABVDCX | BADVP ERROR IN COMMIT DURING ADDR SPACE TERMINATION. |
| | |1 | | RABVDXC | BADVP ERROR IN COMMIT DURING DEFER EXIT PROCESSING. |
| | | 1... | | RABVFLGB | VDAC ERROR FLAGS- FLAGS INDICATE WHY RABBADVP IS ON. |
| | | 1... | | RABVPXD | BADVP ERROR IN PRIMING DURING DEFER EXIT PROCESSING |
| 21 | (15) | .111 1111 | 1 | * | RESERVED |
| 22 | (16) | CHARACTER | 2 | RABASID | RESERVED |
| 24 | (18) | BITSTRING | 4 | RABASCB | ADDRESS SPACE ID |
| 28 | (1C) | ADDRESS | 4 | RABLOCK | ADDRESS OF ASCB |
| 32 | (20) | UNSIGNED | 4 | LOCK WORD | LOCK WORD |
| 36 | (24) | ADDRESS | 4 | RABSGT | ADDRESS OF SGT |
| | | ADDRESS | 4 | RABLPPGT | ADDRESS OF 1ST LOW STORAGE PGT |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|--|
| Dec | Hex | | | | |
| 40 | (28) | ADDRESS | 4 | RABXPPGT | APPARENT ORIGIN OF FIRST EXTENDED PRIVATE AREA PGT |
| 44 | (2C) | ADDRESS | 4 | RABSWFXC | NUMBER OF FIXED PAGES BELOW 16 MEG TO BE SWAPPED-IN FOR THIS ADDRESS SPACE |
| 48 | (30) | ADDRESS | 4 | RABSWFCB | ADDRESS OF SWAP FCB |
| 52 | (34) | ADDRESS | 4 | RABSFT | ADDRESS OF SFT HEADER |
| 56 | (38) | SIGNED | 4 | RABSFTSZ | SIZE OF SFT IN BYTES |
| 60 | (3C) | ADDRESS | 4 | RABSFTL | ADDRESS OF LAST SFT ENTRY USED |
| 64 | (40) | ADDRESS | 4 | RABSLT | ADDRESS OF FIRST POSSIBLE SLT |
| 68 | (44) | ADDRESS | 4 | RABSLTQ | ADDRESS OF 1ST AVAIL SLT |
| 72 | (48) | SIGNED | 4 | RABASLTC | COUNT OF AVAILABLE SLTS |
| 76 | (4C) | ADDRESS | 4 | RABPFQF | POINTER TO FIRST PFTE ON THE PAGEABLE FRAME QUEUE |
| 80 | (50) | ADDRESS | 4 | RABPFQL | POINTER TO LAST PFTE ON THE PAGEABLE FRAME QUEUE |
| 84 | (54) | ADDRESS | 4 | RABFFQF | POINTER TO FIRST PFTE ON THE FIXED FRAME QUEUE |
| 88 | (58) | ADDRESS | 4 | RABFFQL | POINTER TO LAST PFTE ON THE FIXED FRAME QUEUE |
| 92 | (5C) | ADDRESS | 4 | RABDFFQF | POINTER TO FIRST PFTE ON THE DEFERRRED FREMAIN FRAME QUEUE |
| 96 | (60) | ADDRESS | 4 | RABDFFQL | POINTER TO LAST PFTE ON THE DEFERRRED FREMAIN FRAME QUEUE |
| 100 | (64) | ADDRESS | 4 | RABLDPQF | POINTER TO FIRST PCB ON THE LOCAL DEFERRED PCB QUEUE |
| 104 | (68) | ADDRESS | 4 | RABLDPQL | POINTER TO LAST PCB ON THE LOCAL DEFERRED PCB QUEUE |
| 108 | (6C) | ADDRESS | 4 | RABNPQF | POINTER TO FIRST PCB ON THE NOTIFICATION PCB QUEUE. NPQ contains X-Mem, Common, Shared, and Non-XMem high virtual i/o requests |
| 112 | (70) | ADDRESS | 4 | RABNPQL | POINTER TO LAST PCB ON THE NOTIFICATION PCB QUEUE. NPQ contains X-Mem, Common, Shared, and Non-XMem high virtual i/o requests |
| 116 | (74) | ADDRESS | 4 | RABRPH | POINTER TO RPH (RPI HEADER)@L9A |
| 120 | (78) | ADDRESS | 4 | * | RESERVED |
| 124 | (7C) | ADDRESS | 4 | RABFCQF | POINTER TO FIRST FCB ON THE FIX CONTROL QUEUE |
| 128 | (80) | ADDRESS | 4 | RABFCQL | POINTER TO LAST FCB ON THE FIX CONTROL QUEUE |
| 132 | (84) | ADDRESS | 4 | RABFFOEQ | POINTER TO FIRST FOE ON THE FREE FOE QUEUE |
| 136 | (88) | ADDRESS | 4 | RABCFEQ | POINTER TO FIRST CFE ON ADDRESS SPACE'S COMMON FOE QUEUE |
| 140 | (8C) | ADDRESS | 4 | RABLMQF | POINTER TO THE FIRST MPE ON THE LOCAL MPE QUEUE (LMQ) |
| 144 | (90) | ADDRESS | 4 | RABLMQL | POINTER TO THE LAST MPE ON THE LOCAL MPE QUEUE (LMQ) |
| 148 | (94) | ADDRESS | 4 | RABTOKEN | TOKEN REPRESENTING THE INSTANCE OF MIGRATION FOR WHICH A MIGSWAP SYSEVENT (NON-PURGE) WAS ISSUED FOR THIS ADDRESS SPACE. |
| 152 | (98) | ADDRESS | 4 | RABIUEQF | POINTER TO THE FIRST ESTE ON THE IN-USE ESTE QUEUE (IUEQ). This is not used in ESAME and can not be reused. |
| 156 | (9C) | ADDRESS | 4 | RABIUEQL | POINTER TO THE LAST ESTE ON THE IN-USE ESTE QUEUE (IUEQ). This is not used in ESAME and can not be reused. |
| 160 | (A0) | CHARACTER | 4 | RABRVRID | RVR POOL ID |
| 164 | (A4) | ADDRESS | 4 | RABRVRQF | POINTER TO FIRST RVR ON THE RVR QUEUE |
| 168 | (A8) | ADDRESS | 4 | RABRVRQL | POINTER TO LAST RVR ON THE RVR QUEUE |
| 172 | (AC) | ADDRESS | 4 | RABRVRLO | ADDRESS OF THAT RVR WHICH HAS THE LOWEST VIRTUAL ADDR OF ALL RVRS USED. (FOR DUMPING) |
| 176 | (B0) | ADDRESS | 4 | RABRVRHI | ADDRESS OF THAT RVR WHICH HAS THE HIGHEST VIRTUAL ADDR OF ALL RVRS USED. (FOR DUMPING) |
| 180 | (B4) | ADDRESS | 4 | RABDCQF | POINTER TO FIRST FCB ON THE DISASSOCIATE CONTROL QUEUE |
| 184 | (B8) | ADDRESS | 4 | RABDCQL | POINTER TO LAST FCB ON THE DISASSOCIATE CONTROL QUEUE |
| 188 | (BC) | ADDRESS | 4 | RABCCQF | POINTER TO FIRST FCB ON THE COMMIT CONTROL QUEUE |

RAB Map

| Offsets | | | | | |
|---------|-------|------------|-----|------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 192 | (C0) | ADDRESS | 4 | RABCCQL | POINTER TO LAST FCB ON THE COMMIT CONTROL QUEUE |
| 196 | (C4) | ADDRESS | 4 | RABNCQF | POINTER TO FIRST FCB ON THE NOTIFICATION CONTROL QUEUE |
| 200 | (C8) | ADDRESS | 4 | RABNCQL | POINTER TO LAST FCB ON THE NOTIFICATION CONTROL QUEUE |
| 204 | (CC) | ADDRESS | 4 | RABCPQF | POINTER TO FIRST PCB ON THE COMMIT PCB QUEUE |
| 208 | (D0) | ADDRESS | 4 | RABCPQL | POINTER TO LAST PCB ON THE COMMIT PCB QUEUE |
| 212 | (D4) | ADDRESS | 4 | RABPCQF | POINTER TO FIRST FCB ON THE PRIMING CONTROL QUEUE |
| 216 | (D8) | ADDRESS | 4 | RABPCQL | POINTER TO LAST FCB ON THE PRIMING CONTROL QUEUE |
| 220 | (DC) | ADDRESS | 4 | RABDAB | ADDRESS OF THE DAB (OR ZERO IF NO OWNED DATA SPACES) |
| 224 | (E0) | UNSIGNED | 4 | RABDBLDF | DEFAULT VALUE FOR THE NUMBER OF BLOCKS ON DSPSERV CREATE FOR THIS ADDRESS SPACE. |
| 228 | (E4) | UNSIGNED | 4 | RABDMXEX | MAXIMUM NUMBER OF USER KEY DATA SPACES THAT MAY EXIST AT ONE TIME FOR THIS ADDRESS SPACE |
| 232 | (E8) | UNSIGNED | 4 | RABDMXSZ | MAXIMUM NUMBER OF MEGABYTES OF USER KEY DATA SPACE ALLOWED FOR THIS ADDRESS SPACE |
| 236 | (EC) | ADDRESS | 4 | RABSAEQF | POINTER TO FIRST SAE ON THE STACK ANCHOR ELEMENT QUEUE |
| 240 | (F0) | ADDRESS | 4 | RABSAEQL | POINTER TO LAST SAE ON THE STACK ANCHOR ELEMENT QUEUE |
| 244 | (F4) | SIGNED | 4 | RABBFXSV | VALUE OF RAXBELFX WHEN LOGICAL SWAP IS INITIATED |
| 248 | (F8) | ADDRESS | 4 | RABFCUR | PFQ PREF STEAL CURSOR OR ZERO |
| 252 | (FC) | SIGNED | 4 | RABPINCT | COUNT OF RSMPIN LEVEL 1'S IN PROGRESS. IF GREATER THEN ZERO AT LOGICAL SWAP TIME, THE ADDR SPACE WILL BE MEMTERMED. UPDATED VIA COMPARE AND SWAP IN THE LEVEL 1 RSMPIN SERVICE. |
| 256 | (100) | CHARACTER | 8 | RABSTKN | STOKEN OF ADDRESS SPACE |
| 256 | (100) | ADDRESS | 4 | RABSTKN2 | |
| 260 | (104) | ADDRESS | 4 | RABSTKN1 | |
| 264 | (108) | ADDRESS | 4 | RABSRTH | ADDRESS OF THE SUBSPACE RANGE TABLE HEADER |
| 268 | (10C) | ADDRESS | 4 | RABSPEQF | POINTER TO FIRST SPE ON THE SHARED PAGE ELEMENT QUEUE |
| 272 | (110) | ADDRESS | 4 | RABSPEQL | POINTER TO LAST SPE ON THE SHARED PAGE ELEMENT QUEUE |
| 276 | (114) | SIGNED | 4 | RABMUSV | Maximum number of unauthorized shared views this address space can create |
| 280 | (118) | SIGNED | 4 | RABTUSV | Total number of unauthorized shared views this address space has in existence |
| 284 | (11C) | CHARACTER | 4 | RABVOID | VIO LPID POOL ID (ESAME only) |
| 288 | (120) | ADDRESS | 4 | RABVIOQF | POINTER TO FIRST VIO LPID BLOCK VIO LPID QUEUE (ESAME only) |
| 292 | (124) | ADDRESS | 4 | RABVIOQL | POINTER TO LAST VIO LPID BLOCK VIO LPID QUEUE (ESAME only) |
| 296 | (128) | ADDRESS | 4 | RABVIOLO | ADDRESS OF THAT VIO LPID BLOCK WHICH HAS THE LOWEST VIRTUAL ADDR OF ALL VIO LPID BLOCKS USED.(FOR DUMPING) (ESAME only) |
| 300 | (12C) | ADDRESS | 4 | RABVIOHI | ADDRESS OF THAT VIO LPID BLOCK WHICH HAS THE HIGHEST VIRTUAL ADDR OF ALL VIO LPID BLOCKS USED.(FOR DUMPING) (ESAME only) |
| 304 | (130) | ADDRESS | 4 | * | |
| 308 | (134) | ADDRESS | 4 | RABLVAB | pointer to large virtual anchor block |
| 312 | (138) | CHARACTER | 4 | * | Reserved |
| 316 | (13C) | ADDRESS | 4 | RABTOPPFTE | Top Region Table PFTE, this is zero when no region tables exist for the AS. |
| 320 | (140) | CHARACTER | 8 | RABTOPVSA | Top VSA mapped by Top Region for this address space, this is zero when no region tables exist for the AS, or Top VSA for shared area for CRAB |
| 328 | (148) | CHARACTER | 4 | * | Reserved |

| Offsets | | | | | |
|---|-------|------------|-----|------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| Comment | | | | | |
| !WARNING! - PFTE forward chain pointers cannot be on a double word boundary. The chaining methods assume that pointers on a double word boundary are in the PFTE address space and fields not on a d-word boundary are in the header's address space. | | | | | |
| End of Comment | | | | | |
| 332 | (14C) | ADDRESS | 4 | RABLQFQF | |
| Comment | | | | | |
| Address of first PFTE on the quad frame queue that holds the region and segment tables for > 2G virtual in the address space | | | | | |
| End of Comment | | | | | |
| 336 | (150) | ADDRESS | 4 | RABLQFQL | Address of last PFTE on the quad frame queue that holds the region and segment tables for > 2G virtual in the address space |
| 340 | (154) | ADDRESS | 4 | RABPGTQF | Address of first PFTE on the page table queue that holds page tables for > 2G virtual in the address space |
| 344 | (158) | ADDRESS | 4 | RABPGTQL | Address of last PFTE on the page table queue that holds page tables for > 2G virtual in the address space |
| 348 | (15C) | ADDRESS | 4 | RABHVFQF | Address of first PFTE on the high virtual frame table |
| 352 | (160) | ADDRESS | 4 | RABHVFQL | Address of last PFTE on the high virtual frame table |
| 356 | (164) | CHARACTER | 4 | * | Reserved |
| 360 | (168) | CHARACTER | 0 | RABRAXD | RAX AREA |
| Comment | | | | | |
| RAX - RSM ADDRESS SPACE BLOCK EXTENSION | | | | | |
| 06/01/94 | | | | | |
| End of Comment | | | | | |
| 360 | (168) | CHARACTER | 4 | RAXID | RAX CONTROL BLOCK ID |
| 364 | (16C) | CHARACTER | 4 | RAXCSWRD | RAX COMPARE AND SWAP WORD |
| 364 | (16C) | BITSTRING | 1 | RAXFLGS1 | FLAG BYTE 1 |
| | | 1... | | RAXESSW | SWAP THIS ADDRESS SPACE TO EXTENDED STORE - SET BY SRM (ESA MODE ONLY. NOT USED FOR ESAME) |
| | | .1.. | | RAXBLPEA | BLOCK PAGING FROM EXPANDED STORAGE IS ACTIVE. (ESA MODE ONLY. NOT USED FOR ESAME) |
| | | ..1. | | RAXSSCRE | SRM WANTS RSM SWAP OUT TO CALL IARSSCRE |
| | | ...1 | | RAXSORFL | SWAP OUT FAILED DUE TO LACK OF RESOURCES |
| | | 1... | | RAXDAVQL | SRM WANTS RSM TO DEFER 1ST REFERENCE PAGE FAULTS IN THIS SPACE DURING AVQLOW |
| | |111 | | * | RESERVED |
| 365 | (16D) | CHARACTER | 3 | * | RESERVED |
| 368 | (170) | SIGNED | 4 | RAXESCT | NUMBER OF PAGES ON EXTENDED STORAGE. THIS FIELD APPLIES TO THE COMMON RAX. (ESA MODE ONLY, NOT USED FOR ESAME MODE) |
| 372 | (174) | SIGNED | 4 | RAXQUOT | STORAGE ISOLATION QUOTA OF MAIN STORAGE FRAMES AND EXTENDED STORAGE E-FRAMES. THIS FIELD APPLIES TO THE COMMON RAX. FOR ESA MODE, IT ALSO INCLUDES EXTENDED STORAGE E-FRAMES. |
| 376 | (178) | SIGNED | 4 | RAXSWSM | NUMBER OF MIGRATED SECONDARY WORKING SET PAGES. |
| 380 | (17C) | SIGNED | 4 | RAXDRM | NUMBER OF DREF PAGES THAT HAVE BEEN MIGRATED OR ARE IN THE PROCESS OF BEING MIGRATED |
| 384 | (180) | SIGNED | 4 | RAXDRMIP | NUMBER OF DREF PAGES WITH MIGRATION IN PROGRESS |
| 388 | (184) | UNSIGNED | 4 | RAXUKDSS | NUMBER OF BLOCKS (4K BYTES) OF USER KEY DATA SPACE IN EXISTENCE FOR THIS ADDRESS SPACE. |

RAB Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|------------|---|
| Dec | Hex | | | | |
| 392 | (188) | UNSIGNED | 4 | RAXDSHWM | HIGH WATER MARK (IN MEGABYTES) OF USER KEY DATA SPACE CREATED FOR THIS ADDRESS SPACE. THIS FIELD IS PROVIDED FOR SMF AND MAY BE RESET ONLY BY THE SMF COMPONENT. |
| 396 | (18C) | SIGNED | 4 | RAXDBFRM | NUMBER OF DOUBLE FRAME PAIRS CURRENTLY IN USE BY THIS ADDRESS SPACE |
| 400 | (190) | SIGNED | 4 | RAXVIOCT | NUMBER OF VIO DATA SET PAGES ON EXPANDED STORAGE. (ESA MODE ONLY, NOT USED FOR ESAME MODE) |
| 404 | (194) | SIGNED | 4 | RAXFMCT | NUMBER OF FRAMES CURRENTLY IN USE BY THIS ADDRESS SPACE. THIS FIELD APPLIES TO THE COMMON RAX. |
| 408 | (198) | UNSIGNED | 2 | RAXHWRDA | RESERVED L8C |
| 410 | (19A) | UNSIGNED | 2 | RAXFXSTL | NUMBER OF FIXED PAGES IN THIS LOGICALLY SWAPPED ADDR SPACE THAT WERE BACKED BY REAL BELOW 16 MEGABYTES (FOR ESA MODE THE PAGES ARE CURRENTLY STOLEN TO EXPANDED) |
| 412 | (19C) | SIGNED | 4 | RAXHSPCT | NUMBER OF HIPERSPACE PAGES CURRENTLY ON EXPANDED STORAGE FOR THIS ADDRESS SPACE (THIS COUNT IS ALSO INCLUDED IN RAXESCT) (ESA MODE ONLY, NOT USED FOR ESAME MODE) |
| 416 | (1A0) | SIGNED | 4 | RAXCSTAR | WORKING SET MANAGEMENT CENTRAL STORAGE TARGET NUMBER OF FRAMES |
| 420 | (1A4) | CHARACTER | 16 | RAXFBV | STRUCTURE NAME |
| 420 | (1A4) | SIGNED | 4 | RAXFBV1 | NUMBER OF FRAMES IN UIC INTERVAL 1 AS SET BY SRM VIA THE RCEFRV FIELDS. |
| 424 | (1A8) | SIGNED | 4 | RAXFBV2 | NUMBER OF FRAMES IN UIC INTERVAL 2 AS SET BY SRM VIA THE RCEFRV FIELDS. |
| 428 | (1AC) | SIGNED | 4 | RAXFBV3 | NUMBER OF FRAMES IN UIC INTERVAL 3 AS SET BY SRM VIA THE RCEFRV FIELDS. |
| 432 | (1B0) | SIGNED | 4 | RAXFBV4 | NUMBER OF FRAMES IN UIC INTERVAL 4 AS SET BY SRM VIA THE RCEFRV FIELDS. |
| 436 | (1B4) | SIGNED | 4 | RAXOVLK | NUMBER OF IMPLICITLY OVER- BLOCKED FRAMES |
| 440 | (1B8) | SIGNED | 4 | RAXBELFX | NUMBER PAGES IN THIS ADDRESS SPACE EXPLICITLY FIXED AND CURRENTLY BACKED WITH REAL BELOW 16 MEGABYTES |
| 444 | (1BC) | SIGNED | 4 | RAXSWSS | COUNT OF SECONDARY WORKING PAGES |
| 448 | (1C0) | SIGNED | 4 | RAXTOTSV | TOTAL NUMBER OF SHARED PAGE VIEWS IN THIS ADDRESS SPACE |
| 452 | (1C4) | SIGNED | 4 | RAXSVINR | TOTAL NUMBER OF SHARED PAGES IN CENTRAL STORAGE THAT ARE VALID IN THIS ADDRESS SPACE |
| 456 | (1C8) | UNSIGNED | 4 | RAXSPVLC | CONSTANTLY INCREASING COUNT OF SHARED PAGE VALIDATIONS IN THIS ADDRESS SPACE |
| 460 | (1CC) | SIGNED | 4 | RAXSPSNG | NUMBER OF SHARED PAGE SINGLETONS IN THIS ADDRESS SPACE |
| 464 | (1D0) | SIGNED | 4 | RAXTOTFX | TOTAL NUMBER OF FIXED PAGES IN THIS ADDRESS SPACE (DOES NOT INCLUDE SHARED PAGES) |
| 468 | (1D4) | SIGNED | 4 | RAXHRECT | NUMBER OF HIPERSPACE PAGES ON REAL (ESAME ONLY) |
| 472 | (1D8) | SIGNED | 4 | RAXVIORC | NUMBER OF VIO DATASET PAGES IN THE VIO REAL CACHE (ESAME ONLY) |
| 476 | (1DC) | SIGNED | 4 | RAXSPGPI | TOTAL NUMBER OF SHARED PAGES BROUGHT IN FROM AUXILIARY STORAGE BY THIS ADDRESS SPACE |
| 480 | (1E0) | SIGNED | 4 | RAXCSTNO | NUMBER OF FRAMES USED TO BACK CASTOUT=NO CACHE HIPERSPACES IN THIS ADDRESS SPACE (ESAME ONLY) |
| 484 | (1E4) | SIGNED | 4 | RAXABVFX | NUMBER OF PAGES IN THIS ADDRESS SPACE FIXED AND CURRENTLY BACKED WITH REAL STORAGE BETWEEN 16M AND 2G |
| 488 | (1E8) | SIGNED | 4 | RAXLSQA | NUMBER OF FIXED LSQA PAGES BACKED IN REAL STORAGE |
| 492 | (1EC) | SIGNED | 4 | RAXDREFR | NUMBER OF LSQA DREF PAGES AND DATA SPACE DREF PAGES IN REAL STORAGE |
| 496 | (1F0) | SIGNED | 4 | RAXBQFX | NUMBER OF PAGES ON A FIXED QUEUE AND BACKED BELOW 16M IN REAL |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|--------------|--|
| Dec | Hex | | | | |
| 500 | (1F4) | SIGNED | 4 | RAXQDFRM | NUMBER OF QUAD GROUPS CURRENTLY IN USE BY THE ADDRESS SPACE (ESAME ONLY) |
| 504 | (1F8) | CHARACTER | 8 | RAXRSV | RESERVED |
| 512 | (200) | CHARACTER | 40 | RAXV64B | Counts for 64Bit Virtual Support |
| 512 | (200) | CHARACTER | 8 | RAXLVMEMLIM | Address Space Memory limit in MB |
| 520 | (208) | CHARACTER | 8 | RAXLVABYTES | Number of bytes allocated from large virtual memory in memory objects |
| 528 | (210) | CHARACTER | 8 | RAXLVHBYTES | number of bytes hidden within large virtual memory objects |
| 536 | (218) | CHARACTER | 8 | RAXLVGBYTES | high water mark for number of bytes within large virtual memory objects |
| 544 | (220) | UNSIGNED | 1 | RAXLVMEMLIMS | Source of Address Space Memory limit |
| 545 | (221) | UNSIGNED | 3 | * | Reserved for future use |
| 548 | (224) | UNSIGNED | 4 | RAXLVNMOMB | number of memory objects allocated |
| 552 | (228) | CHARACTER | 8 | RAXRSV2 | RESERVED |
| 560 | (230) | CHARACTER | 0 | RAXEND | KEEP RAX A MULT. OF 8 BYTES 6@LID |

RAB Constants

| Len | Type | Value | Name | Description |
|---------|---------|-------|-----------|---|
| 1 | DECIMAL | | RAXLVSMF | MEMLIMIT set by SMF either in SMFPRMxx or by use of SMF default value=0 |
| 1 | DECIMAL | | RAXLVJCL | MEMLIMIT set by the JCL |
| 1 | DECIMAL | | RAXLVREGO | MEMLIMIT Unlimited based on REGION=0 specification |
| 1 | DECIMAL | | RAXLVUSI | MEMLIMIT set by IEFUSI |
| 1 | DECIMAL | | RAXLVOMVS | MEMLIMIT set by UNIX OMVS segment |
| 1 | DECIMAL | | RAXLVSETR | MEMLIMIT set by UNIX setrlimit |
| 1 | DECIMAL | | RAXLVSPW | MEMLIMIT set by UNIX spawn |
| 1 | DECIMAL | | RAXLVSETO | MEMLIMIT set by UNIX SETOMVS command |
| 1 | DECIMAL | | RAXLVAUTH | MEMLIMIT set by authorized application modification |
| 1 | HEX | FF | RAXLVBAD | Error setting MEMLIMIT (for debug purposes) |
| Comment | | | | |

RAB CHAIN AND QUEUE IDS USED BY IPCS

| | | | | |
|----------------|-----|----|----------|----------------------|
| End of Comment | | | | |
| 1 | HEX | C0 | RABRABQN | ID FOR THE RAB QUEUE |

RAB Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| RAB | 0 | | RABDCQF | B4 | |
| RABASCB | 18 | | RABDCQL | B8 | |
| RABASID | 16 | | RABDFFQF | 5C | |
| RABASIT | C | 40 | RABDFFQL | 60 | |
| RABASLTC | 48 | | RABDMXEX | E4 | |
| RABASPIN | 12 | 08 | RABDMXSZ | E8 | |
| RABBADPT | C | 02 | RABDRIM | E | 20 |
| RABBADVP | E | 80 | RABECBNP | 12 | 20 |
| RABBFXSV | F4 | | RABFCQF | 7C | |
| RABBQPTR | 4 | | RABFCQL | 80 | |
| RABCCQF | BC | | RABFCUR | F8 | |
| RABCCQL | C0 | | RABFFOEQ | 84 | |
| RABCFEQ | 88 | | RABFFQF | 54 | |
| RABCPQF | CC | | RABFFQL | 58 | |
| RABCPQL | D0 | | RABFLAW | C | 01 |
| RABC0DCT | 10 | | RABFLGS1 | C | |
| RABC0DFL | 12 | | RABFLGS2 | D | |
| RABDAB | DC | | RABFLGS3 | E | |
| RABDBLDF | E0 | | RABFLGS4 | F | |

RAB Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------|------------|-----------|-------------|------------|-----------|
| RABFOENF | 12 | 10 | RABSWASM | F | 40 |
| RABFQPTR | 0 | | RABSWEST | E | 40 |
| RABHVFQF | 15C | | RABSWFCB | 30 | |
| RABHVFQL | 160 | | RABSWFXC | 2C | |
| RABHVQCV | F | 20 | RABSWIOC | E | 02 |
| RABID | 8 | | RABSWOUT | C | 10 |
| RABIDRAB | 8 | | RABSWPR | C | 20 |
| RABIDTYP | B | | RABTOKEN | 94 | |
| RABIUEQF | 98 | | RABTOPPFTE | 13C | |
| RABIUEQL | 9C | | RABTOPVSA | 140 | |
| RABLDPQF | 64 | | RABTRMIP | D | 02 |
| RABLDPQL | 68 | | RABTUSV | 118 | |
| RABLMQF | 8C | | RABUDDCV | E | 01 |
| RABLMQL | 90 | | RABVATC | 13 | 02 |
| RABLOCK | 1C | | RABVATD | 13 | 20 |
| RABLPPGT | 24 | | RABVDXC | 13 | 01 |
| RABLQFQF | 14C | | RABVDXD | 13 | 10 |
| RABLQFQL | 150 | | RABVFLGA | 13 | |
| RABLSCON | 12 | 40 | RABVFLGB | 14 | |
| RABLSQAO | D | 04 | RABVIOHI | 12C | |
| RABLSWAP | E | 08 | RABVIOID | 11C | |
| RABLVAB | 134 | | RABVIOLO | 128 | |
| RABMUSV | 114 | | RABVIOPL | F | 80 |
| RABNCQF | C4 | | RABVIOQF | 120 | |
| RABNCQL | C8 | | RABVIOQL | 124 | |
| RABNLSQA | C | 08 | RABVPXD | 14 | 80 |
| RABNOTRS | C | 80 | RABVRPTD | D | 08 |
| RABNPGT | C | 04 | RABVTTC | 13 | 08 |
| RABNPQF | 6C | | RABVTTD | 13 | 80 |
| RABNPQL | 70 | | RABVTTXC | 13 | 04 |
| RABPAGDS | D | 20 | RABVTTXD | 13 | 40 |
| RABPCQF | D4 | | RABXPPGT | 28 | |
| RABPCQL | D8 | | RAB1LPU | D | 40 |
| RABPFQF | 4C | | RAB2LPU | D | 80 |
| RABPFQL | 50 | | RAXABVFX | 1E4 | |
| RABPGTQF | 154 | | RAXBELFX | 1B8 | |
| RABPGTQL | 158 | | RAXBFQFX | 1F0 | |
| RABPINCT | FC | | RAXBLPEA | 16C | 40 |
| RABRAXD | 168 | | RAXCSTAR | 1A0 | |
| RABREQSW | D | 10 | RAXCSTNO | 1E0 | |
| RABRMPND | E | 10 | RAXCSWRD | 16C | |
| RABRPH | 74 | | RAXDAVQL | 16C | 08 |
| RABVRHI | B0 | | RAXDBFRM | 18C | |
| RABVRID | A0 | | RAXDREFR | 1EC | |
| RABVRLO | AC | | RAXDRM | 17C | |
| RABVRPL | D | 01 | RAXDRMIP | 180 | |
| RABVRQF | A4 | | RAXDSHWM | 188 | |
| RABVRQL | A8 | | RAXEND | 230 | |
| RABSAEQF | EC | | RAXESCT | 170 | |
| RABSAEQL | F0 | | RAXESSW | 16C | 80 |
| RABSFT | 34 | | RAXFBV | 1A4 | |
| RABSFTEL | 3C | | RAXFBV1 | 1A4 | |
| RABSFTSZ | 38 | | RAXFBV2 | 1A8 | |
| RABSGT | 20 | | RAXFBV3 | 1AC | |
| RABSLT | 40 | | RAXFBV4 | 1B0 | |
| RABSLTQ | 44 | | RAXFLGS1 | 16C | |
| RABSPEQF | 10C | | RAXFMCT | 194 | |
| RABSPEQL | 110 | | RAXFXSTL | 19A | |
| RABSRTH | 108 | | RAXHRECT | 1D4 | |
| RABSSIPF | E | 04 | RAXHSPCT | 19C | |
| RABSTKN | 100 | | RAXHWRDA | 198 | |
| RABSTKN1 | 104 | | RAXID | 168 | |
| RABSTKN2 | 100 | | RAXLSQA | 1E8 | |
| RABSTLPE | 12 | 04 | RAXLVABYTES | 208 | |
| RABSTPIN | 12 | 80 | RAXLVGBYTES | 218 | |

| Name | Hex Offset | Hex Value |
|--------------|---------------|--------------|
| RAXLVHBYTES | 210 | |
| RAXLVMEMLIM | 200 | |
| RAXLVMEMLIMS | 220 | |
| RAXLVNMOMB | 224 | |
| RAXOVBLK | 1B4 | |
| RAXQDFRM | 1F4 | |
| RAXQUOT | 174 | |
| RAXRSV | 1F8 | |
| RAXRSV2 | 228 | |
| RAXSORFL | 16C | 10 |
| RAXSPGPI | 1DC | |
| RAXSPSNG | 1CC | |
| RAXSPVLC | 1C8 | |
| RAXSSCRE | 16C | 20 |
| RAXSVINR | 1C4 | |
| RAXWSM | 178 | |
| RAXWSS | 1BC | |
| RAXTOTFX | 1D0 | |
| RAXTOTSV | 1C0 | |
| RAXUKDSS | 184 | |
| RAXVIOCT | 190 | |
| RAXVIORC | 1D8 | |
| RAXV64B | 200 | |

RAX Programming Interface information

Programming Interface information

RAX

ONLY the following fields are part of the programming interface information:

- | | | | |
|------------|---------------|----------------|------------|
| • RAXDBFRM | • RAXLVABYTES | • RAXLVMEMLIMS | • RAXSWSM |
| • RAXDRM | • RAXLVANMOMB | • RAXOVBLK | • RAXTOTFX |
| • RAXDRMIP | • RAXLVGBYTES | • RAXSPGPI | • RAXTOTSV |
| • RAXESCT | • RAXLVHBYTES | • RAXSPVLC | • RAXVIOCT |
| • RAXFMCT | • RAXLVMEMLIM | • RAXSVINR | • RAXVIORC |
| • RAXHRECT | | | |

End of Programming Interface information

RAX Heading Information

Common Name: RSM ADDRESS SPACE BLOCK EXTENSION
Macro ID: IARRAX
DSECT Name: RAX
Owning Component: REAL STORAGE MANAGER (SC1CR)
Eye-Catcher ID: RAX
 Offset: 0
 Length: 4
Storage Attributes: Virtual Storage: YES
 Subpool: 245
 Key: 0
 Residency: MUST BE ABOVE 16 MEG VIRTUAL
Size: 128 BYTES
Created by: RSM ADDRESS SPACE CREATE
Pointed to by: RCERAX FIELD OF THE RCE DATA AREA
 ASCBRSME FIELD OF THE ASCB DATA AREA
Serialization: RSM ADDRESS SPACE LEVEL LOCKS
Function: CONTAINS RSM ADDRESS SPACE-RELATED CONTROL VALUES AND COUNTERS.

RAX Map

| Offsets | | | | | |
|---------|-----|------------|-----|--------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | RAX | |
| 0 | (0) | CHARACTER | 1 | RAXID (4) | RAX CONTROL BLOCK ID |
| 4 | (4) | CHARACTER | 4 | RAXCSWRD (0) | RAX COMPARE AND SWAP WORD |
| 4 | (4) | BITSTRING | 1 | RAXFLGS1 | FLAG BYTE 1 |
| | | 1... | | RAXESSW | "X'80" SWAP THIS ADDRESS SPACE TO EXTENDED STORE - SET BY SRM (ESA MODE ONLY. NOT USED FOR ESAME) |
| | | .1.. | | RAXBLPEA | "X'40" BLOCK PAGING FROM EXPANDED STORAGE IS ACTIVE. SET BY RSM (ESA MODE ONLY. NOT USED FOR ESAME) |
| | | ..1. | | RAXSSCRE | "X'20" SRM WANTS RSM SWAP OUT PROCESSING TO CALL SECONDARY WORKING SET CREATE |
| | | ...1 | | RAXSORFL | "X'10" SWAP OUT FAILED DUE TO LACK OF RESOURCES |
| | | 1... | | RAXDAVQL | "X'08" SRM WANTS RSM TO DEFER 1ST REFERENCE PAGE FAULTS IN THIS SPACE DURING AVQLOW |
| 5 | (5) | BITSTRING | 3 | RAXRSV1 | RESERVED |
| 8 | (8) | SIGNED | 4 | RAXESCT | NUMBER OF PAGES ON EXTENDED STORAGE (ESA MODE ONLY. NOT USED FOR ESAME) |

Comment

THIS FIELD APPLIES TO THE COMMON RAX

End of Comment

| | | | | | |
|----|-----|--------|---|---------|---|
| 12 | (C) | SIGNED | 4 | RAXQUOT | STORAGE ISOLATION QUOTA OF MAIN STORAGE FRAMES. FOR ESA MODE, IT ALSO INCLUDES EXTENDED STORAGE E-FRAMES. |
|----|-----|--------|---|---------|---|

Comment

THIS FIELD APPLIES TO THE COMMON RAX

End of Comment

| | | | | | |
|----|------|--------|---|---------|--|
| 16 | (10) | SIGNED | 4 | RAXSWSM | NUMBER OF MIGRATED SECONDARY WORKING SET PAGES. |
|----|------|--------|---|---------|--|

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|---|
| Dec | Hex | | | | |
| 20 | (14) | SIGNED | 4 | RAXDRM | NUMBER OF DREF PAGES THAT HAVE BEEN MIGRATED OR ARE IN THE PROCESS OF BEING MIGRATED |
| 24 | (18) | SIGNED | 4 | RAXDRMIP | NUMBER OF DREF PAGES WITH MIGRATION IN PROGRESS |
| 28 | (1C) | SIGNED | 4 | RAXUKDSS | NUMBER OF BLOCKS (4K BYTES) OF USER KEY DATA SPACE IN EXISTENCE FOR THIS ADDRESS SPACE. |
| 32 | (20) | SIGNED | 4 | RAXDSHWM | HIGH WATER MARK (IN MEGABYTES) OF USER KEY DATA SPACE CREATED FOR THIS ADDRESS SPACE. THIS FIELD IS PROVIDED SMF AND MAY BE RESET ONLY BY THE SMF COMPONENT |
| 36 | (24) | SIGNED | 4 | RAXDBFRM | NUMBER OF DOUBLE FRAME PAIRS CURRENTLY IN USE BY THIS ADDRESS SPACE |
| 40 | (28) | SIGNED | 4 | RAXVIOCT | NUMBER OF VIO DATA SET PAGES ON EXPANDED STORAGE (ESA MODE ONLY. NOT USED FOR ESAME) |
| 44 | (2C) | SIGNED | 4 | RAXFMCT | NUMBER OF FRAMES CURRENTLY IN USE BY THIS ADDRESS SPACE. |

Comment

THIS FIELD APPLIES TO THE COMMON RAX

End of Comment

| | | | | | |
|----|------|-----------|----|------------|---|
| 48 | (30) | SIGNED | 2 | RAXHWRDA | RESERVED |
| 50 | (32) | SIGNED | 2 | RAXFXSTL | NUMBER OF FIXED PAGES IN THIS LOGICALLY SWAPPED ADDRESS SPACE THAT WERE BACKED BY REAL STORAGE BELOW 16 MEGABYTES (FOR ESA MODE THE PAGES ARE CURRENTLY STOLEN TO EXPANDED) |
| 52 | (34) | SIGNED | 4 | RAXHSPCT | NUMBER OF HIPERSPACE PAGES CURRENTLY ON EXPANDED STORAGE FOR THIS ADDRESS SPACE (THIS COUNT IS ALSO INCLUDED IN RAXESCT) (ESA MODE ONLY. NOT USED FOR ESAME) |
| 56 | (38) | SIGNED | 4 | RAXCSTAR | WORKING SET MANAGEMENT CENTRAL STORAGE TARGET NUMBER OF FRAMES |
| 60 | (3C) | CHARACTER | 16 | RAXFBV (0) | STRUCTURE NAME FOR RAXFBV# FIELDS |

Comment

THIS AND THE FOLLOWING 4 FIELDS ARE APPLICABLE TO THE COMMON RAX

End of Comment

| | | | | | |
|-----|------|--------|---|----------|---|
| 60 | (3C) | SIGNED | 4 | RAXFBV1 | NUMBER OF FRAMES IN UIC INTERVAL 1 AS SET BY SRM VIA THE RCEFRV# FIELDS. |
| 64 | (40) | SIGNED | 4 | RAXFBV2 | NUMBER OF FRAMES IN UIC INTERVAL 2 AS SET BY SRM VIA THE RCEFRV# FIELDS. |
| 68 | (44) | SIGNED | 4 | RAXFBV3 | NUMBER OF FRAMES IN UIC INTERVAL 3 AS SET BY SRM VIA THE RCEFRV# FIELDS. |
| 72 | (48) | SIGNED | 4 | RAXFBV4 | NUMBER OF FRAMES IN UIC INTERVAL 4 AS SET BY SRM VIA THE RCEFRV# FIELDS. |
| 76 | (4C) | SIGNED | 4 | RAXOVBLK | NUMBER OF IMPLICITLY OVERBLOCKED FRAMES |
| 80 | (50) | SIGNED | 4 | RAXBELFX | NUMBER OF PAGES IN THIS ADDR SPACE EXPLICITLY FIXED AND CURRENTLY BACKED WITH REAL STORAGE BELOW 16 MEGABYTES |
| 84 | (54) | SIGNED | 4 | RAXSWSS | COUNT OF SECONDARY WORKING SET PAGES |
| 88 | (58) | SIGNED | 4 | RAXTOTSV | TOTAL NUMBER OF SHARED PAGE VIEWS IN THIS ADDRESS SPACE |
| 92 | (5C) | SIGNED | 4 | RAXSVINR | TOTAL NUMBER OF SHARED PAGES IN CENTRAL STORAGE THAT ARE VALID IN THIS ADDRESS SPACE |
| 96 | (60) | SIGNED | 4 | RAXSPVLC | CONSTANTLY INCREASING COUNT OF SHARED PAGE VALIDATIONS IN THIS ADDRESS SPACE |
| 100 | (64) | SIGNED | 4 | RAXSPSNG | NUMBER OF SHARED PAGE SINGLETONS IN THIS ADDRESS SPACE |
| 104 | (68) | SIGNED | 4 | RAXTOTFX | TOTAL NUMBER OF FIXED PAGES IN THIS ADDRESS SPACE (DOES NOT INCLUDE SHARED PAGES) |
| 108 | (6C) | SIGNED | 4 | RAXHRECT | NUMBER OF HIPERSPACE PAGES ON REAL (ESAME ONLY) |

RAX Cross Reference

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|--------------|---|
| Dec | Hex | | | | |
| 112 | (70) | SIGNED | 4 | RAXVIORC | NUMBER OF VIO DATASET PAGES IN THE VIO REAL CACHE (ESAME ONLY) |
| 116 | (74) | SIGNED | 4 | RAXSPGPI | TOTAL NUMBER OF SHARED PAGES BROUGHT IN FROM AUXILIARY STORAGE BY THIS ADDRESS SPACE |
| 120 | (78) | SIGNED | 4 | RAXCSTNO | NUMBER OF FRAMES USED TO BACK CASTOUT=NO HIPERSPACE PAGES IN THIS ADDRESS SPACE (ESAME ONLY) |
| 124 | (7C) | SIGNED | 4 | RAXABVFX | NUMBER OF PAGES IN THIS ADDRESS SPACE FIXED AND CURRENTLY BACKED WITH REAL STORAGE BETWEEN 16M AND 2G |
| 128 | (80) | SIGNED | 4 | RAXLSQA | NUMBER OF FIXED LSQA PAGES BACKED IN REAL STORAGE |
| 132 | (84) | SIGNED | 4 | RAXDREFR | NUMBER OF LSQA DREF PAGES AND DATA SPACE DREF PAGES IN REAL STORAGE |
| 136 | (88) | SIGNED | 4 | RAXBFQFX | NUMBER OF PAGES ON A FIXED QUEUE AND BACKED BELOW 16M IN REAL |
| 140 | (8C) | SIGNED | 4 | RAXQDFRM | NUMBER OF QUAD GROUPS CURRENTLY IN USE BY THE ADDRESS SPACE (ESAME ONLY) |
| 144 | (90) | CHARACTER | 8 | RAXRSV | RESERVED |
| 152 | (98) | CHARACTER | 40 | RAXV64B (0) | Counts for 64Bit Virtual Support |
| 152 | (98) | CHARACTER | 8 | RAXLVMEMLIM | Address Space Memory limit in MB |
| 160 | (A0) | CHARACTER | 8 | RAXLVABYTES | Number of bytes allocated from large virtual memory in memory objects |
| 168 | (A8) | CHARACTER | 8 | RAXLVHBYTES | Number of bytes hidden with large virtual memory objects |
| 176 | (B0) | CHARACTER | 8 | RAXLVGBYTES | high water mark for number of bytes within large virtual memory objects |
| 184 | (B8) | CHARACTER | 1 | RAXLVMEMLIMS | Source of Address Space memory limit |
| 185 | (B9) | CHARACTER | 3 | | Reserved for future use |
| 188 | (BC) | CHARACTER | 4 | RAXLVNMOMB | Number of memory objects allocated |
| 192 | (C0) | CHARACTER | 8 | RAXRSV2 | RESERVED |

RAX Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------|------------|-----------|--------------|------------|-----------|
| RAX | 0 | | RAXLVABYTES | A0 | |
| RAXABVFX | 7C | | RAXLVGBYTES | B0 | |
| RAXBELFX | 50 | | RAXLVHBYTES | A8 | |
| RAXBFQFX | 88 | | RAXLVMEMLIM | 98 | |
| RAXBLPEA | 4 | 40 | RAXLVMEMLIMS | B8 | |
| RAXCSTAR | 38 | | RAXLVNMOMB | BC | |
| RAXCSTNO | 78 | | RAXOVBLK | 4C | |
| RAXCSWRD | 4 | | RAXQDFRM | 8C | |
| RAXDAVQL | 4 | 8 | RAXQUOT | C | |
| RAXDBFRM | 24 | | RAXRSV | 90 | |
| RAXDREFR | 84 | | RAXRSV1 | 5 | |
| RAXDRM | 14 | | RAXRSV2 | C0 | |
| RAXDRMIP | 18 | | RAXSORFL | 4 | 10 |
| RAXDSHWM | 20 | | RAXSPGPI | 74 | |
| RAXESCT | 8 | | RAXSPSNG | 64 | |
| RAXESSW | 4 | 80 | RAXSPVLC | 60 | |
| RAXFBV | 3C | | RAXSSCRE | 4 | 20 |
| RAXFBV1 | 3C | | RAXSVINR | 5C | |
| RAXFBV2 | 40 | | RAXSWSM | 10 | |
| RAXFBV3 | 44 | | RAXSWSS | 54 | |
| RAXFBV4 | 48 | | RAXTOTFX | 68 | |
| RAXFLGS1 | 4 | | RAXTOTSV | 58 | |
| RAXFMCT | 2C | | RAXUKDSS | 1C | |
| RAXFXSTL | 32 | | RAXVIOCT | 28 | |
| RAXHRECT | 6C | | RAXVIORC | 70 | |
| RAXHSPCT | 34 | | RAXV64B | 98 | |
| RAXHWRDA | 30 | | | | |
| RAXID | 0 | | | | |
| RAXLSQA | 80 | | | | |

RB Programming Interface information

| | | |
|--|--|--|
| | Programming Interface information | |
| | <u>RB</u> | |
| | End of Programming Interface information | |

RB Heading Information

| | |
|----------------------------|---|
| Common Name: | REQUEST BLOCKS |
| Macro ID: | IHARB |
| DSECT Name: | RBPRFX (DSECT card precedes prefix). RBBASIC should be used for USING for basic section. |
| Owning Component: | Task Management (SC1CL) |
| Eye-Catcher ID: | NONE |
| Storage Attributes: | Subpool: For IRBs, subpool 253. For PRBs, SVRBs, and SIRBs, subpool 255 Key: 0 Residency: Below 16M |
| Size: | For PRBs: 136 bytes. For TIRBs: 136 bytes. For SIRBs: 200 bytes. For SVRBs: 240 bytes. For IRBs: 128 bytes plus the length of optional fields. |
| Created by: | For IRBs: CIRB (Create IRB) macro. For PRBs: SYSGEN, address space initialization, ATTACH, LINK, SYNCH, and XCTL. For SIRBs: SYSGEN, address space initialization. For SVRBs: SVC first level interruption handler. |
| Pointed to by: | TCBRBP field of the TCB data area CDRRBP field of the CDE data area (associated RB) EVNTRBP field of the EVNT data area (waiting RB) PCBRB field of the PCB data area (associated RB) RBLINK field of the RB data area (previous RB) TAXEIRB field of the TAXE data area (associated RB) TIQEIRB field of the TAXE data area (IRB to be scheduled) |
| Serialization: | If the task is running, from the point of view of a program running under that task, the chain is serialized. If the task is not running and the local lock is held, the RB chain will not change. To ensure the task will not be dispatched, the task must be nondispatchable. |
| Function: | Part of the RB is mapped by IHARB and part is mapped by IKJRB. Maps out the following Request Blocks: <ul style="list-style-type: none"> - IRB (Interrupt Request Block), which is not the same as an Interruption Response Block. See the IRB data area description. - PRB (Program Request Block) - SIRB (System Interrupt Request Block) - SVRB (SuperVisor Request Block for SVC routines) - TIRB (Task Interrupt Request Block) The RB control block contains information needed by the supervisor concerning programs and routines, including save areas for all general registers, extended registers, a save area for SVC routines, and additional data needed for control. |

RB Map

| Offsets | | | | | |
|------------------------------------|-------|------------|-----|--------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| -64 | (-40) | STRUCTURE | 0 | RBPRFX | , - RBSECPTR-64 |
| -64 | (-40) | DBL WORD | 8 | (8) | - PREFIX IS SYSTEM DEPENDENT |
| -64 | (-40) | X'40' | 0 | RBBASIC | *** - START OF BASIC SECTION OF RB |
| 0 | (0) | CHARACTER | 8 | RBEXRTNM (0) | - EIGHT-CHARACTER NAME OF ERROR EXIT ROUTINE (SIRB) |
| 0 | (0) | BITSTRING | 1 | RBTMFLD | - INDICATORS FOR TIMER ROUTINES. WHEN THERE ARE NO TIMER ROUTINES, THIS FIELD IS ZERO. (IRB) |
| | | 1... | | RBTMQUE | "BIT0" - TIMER ELEMENT NOT ON QUEUE |
| | | .1.. | | RBMTOD | "BIT1" - LOCAL TIME-OF-DAY OPTION IS USED |
| | | .1. | | RBRV005 | "BIT2,,C'X'" - RESERVED |
| | | ...1 | | RBWLIM | "BIT3" - WAIT LIMIT EXCEEDED MDC001 |
| | | 1... | | RBTCMP | "BIT4" - INTERVAL HAS EXPIRED |
| | |1.. | | RBTMIND2 | "BIT5" - EXIT SPECIFIED WITH TASK OR REAL REQUEST |
| | |11 | | RBTMIND3 | "BIT6+BIT7" - TYPE OF REQUEST |
|  |  | .... .... |  | RBTRREQ | "X'00'" - TASK REQUEST |
| | |1 | | RBWREQ | "BIT7" - WAIT REQUEST |
| | |11 | | RBRREQ | "BIT6+BIT7" - REAL REQUEST |
| 1 | (1) | BITSTRING | 7 | | - LAST 7 BYTES OF RBEXRTNM |
| 8 | (8) | SIGNED | 2 | | - SYSTEM-DEPENDENT FIELD |
| 10 | (A) | BITSTRING | 2 | RBSTAB (0) | - STATUS AND ATTRIBUTE BITS (ALL RB'S) |
| 10 | (A) | BITSTRING | 2 | XSTAB (0) | - SAME AS RBSTAB |
| 10 | (A) | BITSTRING | 1 | RBSTAB1 (0) | - FIRST BYTE OF STATUS AND ATTRIBUTE BITS |
| 10 | (A) | BITSTRING | 1 | XSTAB1 | - SAME AS RBSTAB1 |
| Comment | | | | | |
| BITS 0-4 ARE SYSTEM-DEPENDENT BITS | | | | | |
| End of Comment | | | | | |
| | |1.. | | RBFTCKPT | "BIT5" - A CHECKPOINT MAY BE TAKEN IN A USER EXIT FROM THIS SVC ROUTINE (SVRB-BOTH) |
| | |1.. | | XRBCCKPT | "BIT5" - SAME AS RBFTCKPT |
| Comment | | | | | |
| BITS 6-7 ARE SYSTEM-DEPENDENT BITS | | | | | |
| End of Comment | | | | | |
| 11 | (B) | BITSTRING | 1 | RBSTAB2 (0) | - SECOND BYTE OF STATUS AND ATTRIBUTE BITS |
| 11 | (B) | BITSTRING | 1 | XSTAB2 | - SAME AS RBSTAB2 |
| | | 1... | | RBTCBNXT | "BIT0" - RBLINK FIELD POINTS TO TCB (ALL RB'S) |
| | | 1... | | XRBTCPB | "BIT0" - SAME AS RBTCBNXT |
| | | .1.. | | RBFACTV | "BIT1" - IRB OR SIRB IS QUEUED TO TCB - PROGRAM IS ACTIVE |
| | | .1.. | | XRBACTV | "BIT1" - ACTIVE PROGRAM (ALL RB'S EXCEPT LPRB AND LRB FOR OS/VS1) (MDC300) |
| Comment | | | | | |
| BITS 2-5 ARE SYSTEM-DEPENDENT BITS | | | | | |
| End of Comment | | | | | |
| | |1.. | | RBFDDYN | "BIT6" - RB STORAGE CAN BE FREED AT EXIT |
| | |1.. | | XRBFRRB | "BIT6" - SAME AS RBFDDYN |
| | |1 | | RBECBWT | "BIT7" - IF ZERO, WAIT FOR A SINGLE EVENT OR ALL OF A NUMBER OF EVENTS --- IF ONE, WAIT FOR A NUMBER OF EVENTS THAT IS LESS THAN THE TOTAL NUMBER OF EVENTS WAITING |
| | |1 | | XRBAWAIT | "BIT7" - SAME AS RBECBWT |
| 12 | (C) | ADDRESS | 4 | | - SYSTEM-DEPENDENT FIELD |
| 16 | (10) | CHARACTER | 8 | RBOPSW (0) | - USER'S OLD PSW. THIS OFFSET FIXED BY ARCHITECTURE. (ALL RB'S EXCEPT FRB) (MDC306) |
| 16 | (10) | CHARACTER | 8 | XRBPSPW (0) | - SAME AS RBOPSW |
| 16 | (10) | BITSTRING | 1 | RBOPSWB1 | - OLD PSW BYTE 1 (MDC309) |

RB Map

| Offsets | | | | | |
|---------|------|------------|-----|--------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| | | .1.. | | RBOPER | "X'40'" - PER BIT IN RBOPSWB1 (MDC310) |
| 17 | (11) | BITSTRING | 1 | RBOPSWB2 | - OLD PSW BYTE 2 (MDC304) |
| | |1 | | RBOPSWPS | "X'01'" - PROBLEM STATE BIT IN OLD PSW (MDC305) |
| 18 | (12) | CHARACTER | 1 | | - OLD PSW BYTE 3 |
| 19 | (13) | BITSTRING | 1 | RBOPSWB4 | - OLD PSW BYTE 4 |
| | |1 | | RBOPSW64 | "X'01'" AMODE 64 |
| 20 | (14) | ADDRESS | 4 | RBOPSWA | - OLD PSW BYTES 5-8 (ADDRESS) |
| | | 1... | | RBOPSWM | "X'80'" - ADDRESSING MODE OF OLD PSW |
| | | 1... | | RBOPSW31 | "X'80'" - ADDRESSING MODE OF OLD PSW |
| 24 | (18) | ADDRESS | 4 | | - SYSTEM-DEPENDENT FIELD |
| 28 | (1C) | ADDRESS | 4 | RBLINK (0) | - SAME AS RBLINKB BELOW. THIS OFFSET FIXED BY ARCHITECTURE. (MDC307) |
| 28 | (1C) | ADDRESS | 4 | XRBLNK (0) | - SAME AS RBLINKB BELOW |
| 28 | (1C) | SIGNED | 1 | RBWCF (0) | - NUMBER OF REQUESTS WAITING (WAIT COUNT) (ALL RB'S FOR OS/VS2) |
| 28 | (1C) | SIGNED | 1 | XRBT | - SAME AS RBWCF (ALL RB'S EXCEPT LPRB AND LRB FOR OS/VS1) (MDC301) |
| 29 | (1D) | ADDRESS | 3 | RBLINKB (0) | - ADDRESS OF PREVIOUS RB, OR ADDRESS OF TCB WHEN THIS IS FIRST RB ON THE QUEUE (ALL RB'S FOR OS/VS2) |
| 29 | (1D) | ADDRESS | 3 | XRBLNKA | - SAME AS RBLINKB (ALL RB'S EXCEPT LPRB AND LRB FOR OS/VS1) (MDC302) |
| 32 | (20) | CHARACTER | 64 | RBGRSAVE (0) | - GENERAL REGISTER SAVE AREA. THIS OFFSET FIXED BY ARCHITECTURE. (SVRB-BOTH, IRB, TIRB FOR OS/VS2) (MDC308) |
| 32 | (20) | CHARACTER | 64 | XRBRREG (0) | - SAME AS RBGRSAVE (IRB, SIRB, SVRB FOR OS/VS1) |
| 32 | (20) | SIGNED | 4 | RBGRS0 (0) | - SAVE AREA FOR GENERAL REGISTER 0 |
| 32 | (20) | SIGNED | 4 | XRBRREG0 | - SAME AS RBGRS0 |
| 36 | (24) | SIGNED | 4 | RBGRS1 (0) | - SAVE AREA FOR GENERAL REGISTER 1 |
| 36 | (24) | SIGNED | 4 | XRBRREG1 | - SAME AS RBGRS1 |
| 40 | (28) | SIGNED | 4 | RBGRS2 (0) | - SAVE AREA FOR GENERAL REGISTER 2 |
| 40 | (28) | SIGNED | 4 | XRBRREG2 | - SAME AS RBGRS2 |
| 44 | (2C) | SIGNED | 4 | RBGRS3 (0) | - SAVE AREA FOR GENERAL REGISTER 3 |
| 44 | (2C) | SIGNED | 4 | XRBRREG3 | - SAME AS RBGRS3 |
| 48 | (30) | SIGNED | 4 | RBGRS4 (0) | - SAVE AREA FOR GENERAL REGISTER 4 |
| 48 | (30) | SIGNED | 4 | XRBRREG4 | - SAME AS RBGRS4 |
| 52 | (34) | SIGNED | 4 | RBGRS5 (0) | - SAVE AREA FOR GENERAL REGISTER 5 |
| 52 | (34) | SIGNED | 4 | XRBRREG5 | - SAME AS RBGRS5 |
| 56 | (38) | SIGNED | 4 | RBGRS6 (0) | - SAVE AREA FOR GENERAL REGISTER 6 |
| 56 | (38) | SIGNED | 4 | XRBRREG6 | - SAME AS RBGRS6 |
| 60 | (3C) | SIGNED | 4 | RBGRS7 (0) | - SAVE AREA FOR GENERAL REGISTER 7 |
| 60 | (3C) | SIGNED | 4 | XRBRREG7 | - SAME AS RBGRS7 |
| 64 | (40) | SIGNED | 4 | RBGRS8 (0) | - SAVE AREA FOR GENERAL REGISTER 8 |
| 64 | (40) | SIGNED | 4 | XRBRREG8 | - SAME AS RBGRS8 |
| 68 | (44) | SIGNED | 4 | RBGRS9 (0) | - SAVE AREA FOR GENERAL REGISTER 9 |
| 68 | (44) | SIGNED | 4 | XRBRREG9 | - SAME AS RBGRS9 |
| 72 | (48) | SIGNED | 4 | RBGRS10 (0) | - SAVE AREA FOR GENERAL REGISTER 10 |
| 72 | (48) | SIGNED | 4 | XRBRREG10 | - SAME AS RBGRS10 |
| 76 | (4C) | SIGNED | 4 | RBGRS11 (0) | - SAVE AREA FOR GENERAL REGISTER 11 |
| 76 | (4C) | SIGNED | 4 | XRBRREG11 | - SAME AS RBGRS11 |
| 80 | (50) | SIGNED | 4 | RBGRS12 (0) | - SAVE AREA FOR GENERAL REGISTER 12 |
| 80 | (50) | SIGNED | 4 | XRBRREG12 | - SAME AS RBGRS12 |
| 84 | (54) | SIGNED | 4 | RBGRS13 (0) | - SAVE AREA FOR GENERAL REGISTER 13 |
| 84 | (54) | SIGNED | 4 | XRBRREG13 | - SAME AS RBGRS13 |
| 88 | (58) | SIGNED | 4 | RBGRS14 (0) | - SAVE AREA FOR GENERAL REGISTER 14 |
| 88 | (58) | SIGNED | 4 | XRBRREG14 | - SAME AS RBGRS14 |
| 92 | (5C) | SIGNED | 4 | RBGRS15 (0) | - SAVE AREA FOR GENERAL REGISTER 15 |
| 92 | (5C) | SIGNED | 4 | XRBRREG15 | - SAME AS RBGRS15 |
| 96 | (60) | DBL WORD | 8 | (0) | |
| 96 | (60) | CHARACTER | 48 | RBEXSAVE (0) | - EXTENDED SAVE AREA FOR SVC ROUTINES (SVRB-BOTH) (OS/VS2) |
| 96 | (60) | DBL WORD | 8 | XRBEA (10) | - SVRB - EXTENDED SAVE AREA OF UP TO TEN DOUBLEWORDS REQUESTED FOR SVC ROUTINE (OS/VS1) (MDC303) |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|--|-----|------------|-----|------------|-------------|
| Dec | Hex | | | | |
| Comment | | | | | |
| | | | | | |
| <pre>%RBL1 : ; START OF SPECIFICATIONS 01 MACRO NAME: IKJRB 01 DESCRIPTIVE NAME: OS/VS2 REQUEST BLOCK 02 ACRONYM: RB 01 COPYRIGHT = 5647-A01 THIS MODULE IS "RESTRICTED MATERIALS OF IBM" (C) COPYRIGHT IBM CORP. 1977, 2000 LICENSED MATERIALS - PROPERTY OF IBM 01 STATUS = HBB7703 01 EXTERNAL CLASSIFICATION: 02 GUPI: FIELDS RBFEPARM RBGRSAVE RBNEXAV RBOPSW RBPPSAV1 02 PSPI: BASE 01 END OF EXTERNAL CLASSIFICATION: 01 DSECT NAME: RBPRFX (DSECT card precedes prefix). RBBASIC should be used for USING for basic section 01 COMPONENT: Task Manager (SC1CL) 01 EYE-CATCHER: NONE 01 STORAGE ATTRIBUTES: 02 SUBPOOL: For IRBs, subpool 253. For PRBs, SVRBs, and SIRBs, subpool 255 02 KEY: 0 02 RESIDENCY: Below 16M 01 SIZE: For PRBs: 136 bytes. For SIRBs: 200 bytes. For SVRBs: 240 bytes. For IRBs: 128 bytes plus the length of optional fields. 01 CREATED BY: For IRBs: CIRB (Create IRB) macro. For PRBs: SYSGEN, address space initialization, ATTACH, LINK, SYNCH, and XCTL. For SIRBs: SYSGEN, address space initialization. For SVRBs: SVC first level interruption handler. 01 POINTED TO BY: TCBRBP field of the TCB data area CDRRBP field of the CDE data area (associated RB) EVNTRBP field of the EVNT data area (waiting RB) PCBRB field of the PCB data area (associated RB) RBLINK field of the RB data area (previous RB) TAXEIRB field of the TAXE data area (associated RB) TIQEIRB field of the TAXE data area (IRB to be scheduled) 01 SERIALIZATION: LOCAL lock, active (RB or TCB), non-dispatchable TCB, etc. 01 FUNCTION = PROVIDE DATA MAPPING OF THE RB. SVRB - SUPERVISOR REQUEST BLOCK FOR TRANSIENT SVC ROUTINES SVRB - SUPERVISOR REQUEST BLOCK FOR RESIDENT SVC ROUTINES IRB - INTERRUPTION REQUEST BLOCK</pre> | | | | | |

RB Map

| Offsets | | | | | |
|----------------|-------|--|-----|--------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| | | SIRB - SYSTEM INTERRUPT REQUEST BLOCK | | | |
| | | PRB - PROGRAM REQUEST BLOCK | | | |
| | | TIRB - TASK INTERRUPTION REQUEST BLOCK | | | |
| 01 | | METHOD OF ACCESS | | | |
| | | THIS MACRO IS INVOKED BY IHARB WHICH MAPS THE FIELDS | | | |
| | | THAT ARE COMMON TO OS/VS1 AND OS/VS2. | | | |
| | | IF THIS MACRO IS INVOKED DIRECTLY IN BAL, IT WILL INVOKE | | | |
| | | IHARB TO MAP THE COMMON FIELDS. | | | |
| | | BAL LISTING - SPECIFY LIST=YES ON MACRO CALL. | | | |
| | | PL/AS LISTING - SPECIFY %IHALIST='YES' BEFORE %INCLUDE. | | | |
| | | VIA ATTRIBUTE - SPECIFY %IHAVIA='YES' BEFORE | | | |
| | | %INCLUDE. | | | |
| | | DECLARE RBALET. | | | |
| 01 | | COMPONENT = SC1CL (TASK MANAGEMENT) | | | |
| 01 | | DISTRIBUTION LIBRARY = AMODGEN | | | |
| | | END OF SPECIFICATIONS | | | |
| %GOTO RBL2; | | | | | |
| End of Comment | | | | | |
| -64 | (-40) | DBL WORD | 8 | (0) | |
| -64 | (-40) | X'0' | 0 | RBPREFIX | *** - RBSECPTR-64 |
| -64 | (-40) | ADDRESS | 4 | RBRSV012 | - RESERVED |
| -60 | (-3C) | ADDRESS | 4 | RBRSV013 | - RESERVED |
| -56 | (-38) | SIGNED | 2 | RBRSV014 | - RESERVED |
| -54 | (-36) | BITSTRING | 1 | RBRSV015 | - RESERVED |
| -53 | (-35) | BITSTRING | 1 | RBRSV016 | - RESERVED |
| -52 | (-34) | BITSTRING | 1 | RBRSV017 | - RESERVED |
| -51 | (-33) | BITSTRING | 1 | RBRSV018 | - RESERVED |
| -50 | (-32) | BITSTRING | 1 | RBRSV019 | - RESERVED |
| | | 1... | | RBRSV020 | "X'80',C'X'" - RESERVED |
| | | .1.. | | RBRSV021 | "X'40',C'X'" - RESERVED |
| | | .1. | | RBRSV022 | "X'20',C'X'" - RESERVED |
| | | ...1 | | RBRSV023 | "X'10',C'X'" - RESERVED |
| | | 1... | | RBRSV024 | "X'08',C'X'" - RESERVED |
| | |1.. | | RBRSV025 | "X'04',C'X'" - RESERVED |
| | |1. | | RBRSV026 | "X'02',C'X'" - RESERVED |
| | |1 | | RBRSV027 | "X'01',C'X'" - RESERVED |
| -49 | (-31) | BITSTRING | 1 | RBRSV028 | - RESERVED |
| | | 1... | | RBRSV029 | "X'80',C'X'" - RESERVED |
| | | .1.. | | RBRSV030 | "X'40',C'X'" - RESERVED |
| | | .1. | | RBRSV031 | "X'20',C'X'" - RESERVED |
| | | ...1 | | RBRSV032 | "X'10',C'X'" - RESERVED |
| | | 1... | | RBRSV033 | "X'08',C'X'" - RESERVED |
| | |1.. | | RBRSV034 | "X'04',C'X'" - RESERVED |
| | |1. | | RBRSV035 | "X'02',C'X'" - RESERVED |
| | |1 | | RBRSV036 | "X'01',C'X'" - RESERVED |
| -48 | (-30) | ADDRESS | 4 | RBRSV037 | - RESERVED |
| -44 | (-2C) | ADDRESS | 4 | RBRSV038 | - RESERVED |
| -40 | (-28) | SIGNED | 2 | RBRSV039 | - RESERVED |
| -38 | (-26) | BITSTRING | 1 | RBRSV040 | - RESERVED |
| -37 | (-25) | BITSTRING | 1 | RBRSV041 | - RESERVED |
| | | 1... | | RBRSV042 | "X'80',C'X'" - RESERVED |
| | | .1.. | | RBRSV043 | "X'40',C'X'" - RESERVED |
| | | .1. | | RBRSV044 | "X'20',C'X'" - RESERVED |
| | | ...1 | | RBRSV045 | "X'10',C'X'" - RESERVED |
| | | 1... | | RBRSV046 | "X'08',C'X'" - RESERVED |
| | |1.. | | RBRSV047 | "X'04',C'X'" - RESERVED |
| | |1. | | RBRSV048 | "X'02',C'X'" - RESERVED |
| | |1 | | RBRSV049 | "X'01',C'X'" - RESERVED |
| -36 | (-24) | ADDRESS | 4 | RBRSV050 | - RESERVED |
| -32 | (-20) | DBL WORD | 8 | RBPRFXST (0) | - START OF ASSIGNED FIELDS IN RB PREFIX |
| -32 | (-20) | ADDRESS | 4 | RBXSB | - ADDRESS OF EXTENDED STATUS BLOCK (XSB). |
| | | | | | SERIALIZATION - TCBACTIV. OWNERSHIP - SUPERVISOR. |
| | | | | | (MDC347) |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|--------------|--|
| Dec | Hex | | | | |
| -28 | (-1C) | SIGNED | 2 | RBRVS052 | - RESERVED |
| -26 | (-1A) | BITSTRING | 1 | RBKEYSTA | - THE KEY AND STATE OF THE IRB ROUTINE SPECIFIED IN RBEP. NOTE: THIS BYTE IS COPIED INTO RBOPSW BYTE 1 BY STAGE 3 |
| | | 1111 | | RBKEY | "X'F0" THE KEY OF THE IRB ROUTINE |
| | | 11.. | | RBCIRB | "X'0C" THIS IRB WAS CREATED BY CIRB |
| | |1 | | RBSTATE | "X'01" PROBLEM STATE IRB ROUTINE INDICATOR |
| -25 | (-19) | BITSTRING | 1 | RBFLAGS2 | - SECOND FLAG BYTE |
| | | 1... | | RBXWAITA | "BIT0" - AMODE OF WAITER WHO HAS ENTERED EXPLICIT WAIT (1 => 31-BIT MODE) |
| | | .1.. | | RBRVS056 | "X'40',C'X'" - RESERVED |
| | | ..1. | | RBRVS057 | "X'20',C'X'" - RESERVED |
| | | ...1 | | RBRVS058 | "X'10',C'X'" - RESERVED |
| | | 1... | | RBRVS059 | "X'08',C'X'" - RESERVED |
| | |1.. | | RBRVS060 | "X'04',C'X'" - RESERVED |
| | |1. | | RBRVS061 | "X'02',C'X'" - RESERVED |
| | |1 | | RBRVS062 | "X'01',C'X'" - RESERVED |
| -24 | (-18) | DBL WORD | 8 | (0) | |
| -24 | (-18) | CHARACTER | 16 | RBRTOPSW (0) | - PROGRAM STATUS INFORMATION STORED AT TIME OF INTERRUPT CAUSING ENTRY INTO THE RTM MDC013 |
| -24 | (-18) | CHARACTER | 8 | RBRTPSW1 | - FIRST DOUBLE WORD OF PSW - SYSTEM AND PROGRAM MASKS, KEY CONDITION CODE AND INSTRUCTION COUNTER MDC014 |
| -16 | (-10) | CHARACTER | 8 | RBRTPSW2 (0) | - SECOND DOUBLE WORD OF PSW MDC015 |
| -16 | (-10) | CHARACTER | 4 | RBRTICIL (0) | - ILC AND INTERRUPT CODE MDC016 |
| -16 | (-10) | BITSTRING | 1 | RBRVS160 | - RESERVED - SET TO ZERO IN LOW CORE BY HARDWARE MDC017 |
| -15 | (-F) | SIGNED | 1 | RBRTILC | - INSTRUCTION LENGTH COUNTER - NUMBER OF BYTES IN INSTRUCTION CAUSING INTERRUPT MDC018 |
| -14 | (-E) | SIGNED | 2 | RBRTINCD | - INTERRUPT CODE MDC019 |
| -12 | (-C) | ADDRESS | 4 | RBRTAN | - VIRTUAL ADDRESS CAUSING TRANSLATION EXCEPTION IF PROGRAM INTERRUPT 16, 17 OR 18. OTHERWISE, NOT USED. MDC020 |
| -8 | (-8) | BITSTRING | 1 | RBFLAGS1 | - FLAG BYTE |
| | | 1... | | RBSLOCK | "BIT0" - INDICATES THAT THIS RB IS NONDISPATCHABLE UNTIL THE SUPERVISOR LOCK (CVTSYLK) IS RESET (ALL RB'S) |
| | | .1.. | | RBXWAIT | "BIT1" - INDICATES THAT THE PROGRAM OPERATING UNDER THIS RB HAS ISSUED AN EXPLICIT (SVC) WAIT (ALL RB'S) |
| | | ..1. | | RBABEND | "BIT2" - ABEND SVRB (SVRB-BOTH) |
| | | ...1 | | RBXWPRM | "BIT3" - WAIT POST RESOURCE MANAGER REQUEST (MDC341) |
| | | 1... | | RBASIR | "BIT4" - ASIR IS RUNNING UNDER THIS RB ICB444 |
| | |1.. | | RBLONGWT | "BIT5" - LONG WAIT ISSUED UNDER THIS RB MDC009 |
| | |1. | | RBSCB | "BIT6" - SET BY SVC 60 TO INDICATE RB HAS AN ASSOCIATED ESTAE OR STAE EXIT MDC004 |
| | |1 | | RBSSSYN | "BIT7" - SYNCHRONIZED STATUS STOP PENDING FOR THIS RB MDC011 |
| -7 | (-7) | BITSTRING | 1 | RBFLAGS3 | - FLAG BYTE. SERIALIZATION:LOCAL LOCK |
| | | 1... | | RBWTECB | "X'80" - WAIT WAS ISSUED WITH AN ECB PROVIDED |
| -6 | (-6) | SIGNED | 2 | RBXWAITI | - EXPLICIT WAIT INDEX (MDC342) |
| -4 | (-4) | SIGNED | 4 | RBWLIC (0) | - FULLWORD LABEL TO BE USED AS THE KEYFIELD NAME TO REPRESENT THE FIELDS WITHIN THIS WORD. |
| -4 | (-4) | SIGNED | 1 | RBWCSA | - NUMBER OF REQUESTS WAITING AT TIME OF TERMINATION (WAIT COUNT SAVE AREA) (ALL RB'S) |
| -3 | (-3) | CHARACTER | 3 | RBINTCDA (0) | - INTERRUPT CODE (ALL RB'S) |
| -3 | (-3) | CHARACTER | 1 | RBINLNTH | - INSTRUCTION LENGTH CODE - 4 HIGH-ORDER BITS MUST BE ZERO. THIS OFFSET FIXED BY ARCHITECTURE. (ALL RB'S) (MDC343) |
| -2 | (-2) | CHARACTER | 2 | RBINTCOD | - INTERRUPT CODE. THIS OFFSET FIXED BY ARCHITECTURE. (ALL RB'S) (MDC344) |
| 0 | (0) | CHARACTER | 1 | RBPRFXND (0) | - END OF RB PREFIX |
| 0 | (0) | DBL WORD | 8 | (0) | - |

RB Map

| Offsets | | | | | |
|--|-----|------------|-----|-------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | X'40' | 0 | RBSECT | *** - RBSECPTR - THIS IS THE START OF THE BASIC SECTION OF THE RB |
| 0 | (0) | ADDRESS | 4 | RBPPSAV (0) | - ADDRESS OF PROBLEM PROGRAM REGISTER SAVE AREA (IRB) |
| 0 | (0) | BITSTRING | 1 | | - RBTMFLD |
| 1 | (1) | ADDRESS | 3 | RBPPSAV1 | - ADDRESS OF PROBLEM PROGRAM REGISTER SAVE AREA (IRB) |
| 4 | (4) | CHARACTER | 4 | RBABOPSW | - AFTER EXECUTION OF TRANSIENT AREA HANDLER ROUTINE - FOUR LOW-ORDER BYTES OF NAME OF REQUESTED ROUTINE (SVRB-TRANS) MDC012 |
| 8 | (8) | SIGNED | 2 | RBSIZE | - SIZE OF THIS RB IN DOUBLEWORDS (ALL RB'S) |
| 10 | (A) | BITSTRING | 2 | (0) | - RBSTAB |
| 10 | (A) | BITSTRING | 1 | | - RBSTAB1 |
| | | 111. | | RBFTP | "BIT0+BIT1+BIT2" TYPE OF RB |
|  |  | .... .... |  | RBFTP RB | "X'00" - PRB |
| | | .11. | | RBFTTIRB | "BIT1+BIT2" - TIRB ICB417 |
| | | .1.. | | RBFTIRB | "BIT1" - IRB |
| | | 1... | | RBFTSIRB | "BIT0" - SIRB |
| | | 11.. | | RBFTSVRB | "BIT0+BIT1" - SVRB |
| | | ...1 | | RBTRSVRB | "BIT3" - IF RBTRSVRB=0 AND RBCDE=0, THEN TYPE 2 SVC IN NUCLEUS. IF RBTRSVRB=0 AND RBCDE1 NOT 0, THEN SECOND OR SUBSEQUENT LOAD OF TYPE 4 SVC IN FIXED OR MODIFIED LPA (RBCDE1 = ADDRESS OF CDE). IF RBTRSVRB=1 AND RBCDE1=0, THEN TYPE 3 OR FIRST LOAD OF TYPE 4 SVC IN PAGED, FIXED OR MODIFIED LPA. IF RBTRSVRB=1 AND RBCDE1 NOT 0, THEN SECOND OR SUBSEQUENT LOAD OF TYPE 4 SVC IN PAGED LPA (RBCDE1 = ADDRESS OF LPDE). |
| | | ...1 | | RBFN SVRB | "BIT3" - ALIAS FOR RBTRSVRB |
| | | 1... | | RBWAITP | "BIT4" - INDICATES THAT AN ECB IS POINTING AT THE RB. ICB416 |
| Comment | | | | | |
| RBFTCKPT EQU BIT5 - SEE COMMON SECTION | | | | | |
| End of Comment | | | | | |
| | |1. | | RBATNXIT | "BIT6" - THIS IRB IS AN ATTENTION IRB ICB444 |
| | |1 | | RBPM SVRB | "BIT7" - THIS IS A PROGRAM MANAGER SVRB - VALID ONLY ON LINK, LOAD, XCTL OR ATTACH (MDC305) |
| 11 | (B) | BITSTRING | 1 | | - RBSTAB2 |
| Comment | | | | | |
| RBTCBNXT EQU BIT0 - SEE COMMON SECTION | | | | | |
| RBFACTV EQU BIT1 - SEE COMMON SECTION | | | | | |
| End of Comment | | | | | |
| | | .1. | | RBATTN | "BIT2" - EXITING PROGRAM IS AN ATTENTION EXIT (IRB) |
| | | ...1 | | RBETXR | "BIT3" - IRB IS FOR AN ETXR EXIT ROUTINE |
| | | ...1 | | RBUSIQE | "BIT3" - SAME AS RBETXR ICB444 |
| | | 11.. | | RBIQETP | "BIT4+BIT5" - |
|  |  | .... .... |  | RBRQENR | "X'00" - REQUEST QUEUE ELEMENT IS NOT TO BE RETURNED |
| | |1.. | | RBIRBAER | "BIT5" - IRB HAS QUEUE ELEMENTS FOR ASYNCHRONOUSLY EXECUTED ROUTINES THAT ARE RQE'S |
| | | 1... | | RBIQENR | "BIT4" - IQE IS NOT TO BE RETURNED AT EXIT |
| | | 11.. | | RBIRBAIQ | "BIT4+BIT5" - IRB HAS QUEUE ELEMENTS FOR ASYNCHRONOUSLY EXECUTED ROUTINES THAT ARE IQE'S |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------------------------------------|------|------------|-----|-------------|---|
| Dec | Hex | | | | |
| Comment | | | | | |
| RBFDDYN EQU BIT6 - SEE COMMON SECTION | | | | | |
| RBECBWT EQU BIT7 - SEE COMMON SECTION | | | | | |
| End of Comment | | | | | |
| 12 | (C) | ADDRESS | 4 | RBEP (0) | - ENTRY POINT ADDRESS OF ASYNCHRONOUSLY EXECUTED ROUTINE (IRB, SIRB) |
| | | 1... .. | | RBEPM | "X'80'" - ADDRESSING MODE OF ROUTINE, IF RBEPD IS ON |
| 12 | (C) | ADDRESS | 4 | RBEPD (0) | - SAME AS RBEP |
| 12 | (C) | BITSTRING | 3 | | - FIRST 3 BYTES OF EP ADDRESS |
| 15 | (F) | BITSTRING | 1 | RBEPLBYT | BITS 0-6 = BITS 24-30 OF EP ADDR BIT 7 = EP ADDR BIT 31 = FLAG |
| | |1 | | RBEPD | "X'01'" - BIT 31 INDICATES RBEP IS POINTER-DEFINED (BIT 0 IS AMODE) |
| 16 | (10) | CHARACTER | 8 | | - RBOPSW |
| 24 | (18) | ADDRESS | 4 | RBPGMQ (0) | - SAME AS RBPGMQ1 BELOW |
| 24 | (18) | BITSTRING | 1 | | - ZERO |
| 25 | (19) | ADDRESS | 3 | RBPGMQ1 | - ADDRESS OF RB INDICATING A REQUEST TO USE SAME SERIALLY REUSABLE PROGRAM (SVRB-RES, PRB) |
| 28 | (1C) | ADDRESS | 4 | (0) | - RBLINK |
| 28 | (1C) | SIGNED | 1 | (0) | - RBWCF |
| 28 | (1C) | SIGNED | 1 | RBSCF | - RB SUSPENDED COUNT (MDC339) |
| 29 | (1D) | ADDRESS | 3 | | - RBLINKB |
| 32 | (20) | CHARACTER | 64 | | - RBGRSAVE |
| 96 | (60) | SIGNED | 4 | IRBEND (0) | - END OF IRB UNLESS OPTIONAL FIELDS RBNEXAV AND RBQEWK ARE PRESENT |
| 96 | (60) | CHARACTER | 48 | (0) | - RBEXSAVE |
| 96 | (60) | ADDRESS | 4 | RBRVS135 | - RESERVED |
| 100 | (64) | SIGNED | 2 | RBRVS136 | - RESERVED |
| 102 | (66) | BITSTRING | 1 | RBRVS137 | - RESERVED |
| 103 | (67) | BITSTRING | 1 | RBRVS138 | - RESERVED |
| | | 1... .. | | RBRVS139 | "X'80'",C'X'" - RESERVED |
| | | .1.. .. | | RBRVS140 | "X'40'",C'X'" - RESERVED |
| | | ..1. | | RBRVS141 | "X'20'",C'X'" - RESERVED |
| | | ...1 | | RBRVS142 | "X'10'",C'X'" - RESERVED |
| | | 1... | | RBRVS143 | "X'08'",C'X'" - RESERVED |
| | |1.. | | RBRVS144 | "X'04'",C'X'" - RESERVED |
| | |1. | | RBRVS145 | "X'02'",C'X'" - RESERVED |
| | |1 | | RBRVS146 | "X'01'",C'X'" - RESERVED |
| 104 | (68) | SIGNED | 4 | PRBEND (0) | - END OF PRB |
| 104 | (68) | SIGNED | 4 | TIRBEND (0) | - END OF TIRB |
| 104 | (68) | CHARACTER | 40 | | - LAST 40 BYTES OF RBEXSAVE |
| 144 | (90) | CHARACTER | 24 | RBSCBB (0) | - AREA CONTAINING STAE CONTROL BLOCK (SCB) (SVRB ONLY) (MDC347) |
| 144 | (90) | ADDRESS | 4 | RBSCHAIN | - POINTER TO NEXT SCB ON CHAIN (MDC306) |
| 148 | (94) | ADDRESS | 4 | RBSEXIT | - POINTER TO USER WRITTEN EXIT ROUTINE (MDC307) |
| 152 | (98) | ADDRESS | 4 | RBSPARM (0) | - ADDRESS OF PARAMETER LIST FOR STA EXIT (MDC308) |
| 152 | (98) | BITSTRING | 1 | RBFLGS1 | - FIRST FLAG BYTE (MDC309) |
| | | 1... .. | | RBSSTAI | "BIT0" - STAI SCB (MDC310) |
| | | .1.. .. | | RBSSTAR | "BIT1" - STAR SCB. SCB IF FOR STAE IF NEITHER RBSSTAI NOR RBSSTAR BIT IS SET ON. (MDC311) |
| | | ..1. | | RBSDUMMY | "BIT2" - DUMMY SCB (WILL NOT BE SCHEDULED) (MDC312) |
| | | ...1 | | RBSESTAE | "BIT3" - ESTAE INDICATOR (MDC313) |
| | | 1... | | RBRVS162 | "BIT4" - RESERVED |
| | |1.. | | RBSASYNC | "BIT5" - ALLOW ASYNCHRONOUS INTERRUPTS (MDC314) |
| | |11 | | RBSIOPRC | "BIT6+BIT7" - I/O PROCESSING OPTION. BOTH BITS OFF MEANS QUIESCE I/O. BOTH BITS ON IS NOT DEFINED. (MDC315) |
| | |1. | | RBSNOIOP | "BIT6" - BYPASS I/O INTERVENTION (MDC316) |
| | |1 | | RBSHALT | "BIT7" - HALT I/O (MDC317) |
| 153 | (99) | ADDRESS | 3 | RBSPARMA | - ADDRESS OF PARAMETER LIST FOR STA EXIT (MDC318) |

RB Map

| Offsets | | | | | |
|---------|------|------------|-----|--------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 156 | (9C) | ADDRESS | 4 | RBSOWNR (0) | - TCB/RB ADDRESS CONTROLLING THIS SCB (MDC319) |
| 156 | (9C) | BITSTRING | 1 | RBSFLGS2 | - SECOND FLAG BYTE (MDC320) |
| | | 1... | | RBSAMODE | "BIT0" - USER IS IN 31 BIT ADDRESSING MODE |
| | | .1.. | | RBSXCTL2 | "BIT1" - RETAIN THIS SCB ACROSS XCTL (MDC321) |
| | | ..1. | | RBRSV164 | "BIT2" - RESERVED |
| | | ...1 | | RBSINUSE | "BIT3" - THIS SCB IN USE (MDC322) |
| | | 1... | | RBRSV165 | "BIT4" - RESERVED |
| | |1.. | | RBRSV166 | "BIT5" - RESERVED |
| | |1. | | RBSKEY0 | "BIT6" - USER IN KEY 0 (MDC323) |
| | |1 | | RBSSUPER | "BIT7" - USER IN SUPERVISOR MODE (MDC324) |
| 157 | (9D) | ADDRESS | 3 | RBSOWNRA | - RB ADDRESS IF STAE/STAR, TCB ADDRESS IF STAI (MDC325) |
| 160 | (A0) | SIGNED | 4 | RBSDATA (0) | - FLAGS AND DATA FIELD (MDC326) |
| 160 | (A0) | BITSTRING | 1 | RBSFLG3 | - OPTION FLAGS (MDC327) |
| | | 1... | | RBRSV167 | "BIT0" - RESERVED |
| | | .1.. | | RBSTERMI | "BIT1" - AUTHORIZED FOR TERM PROCESSING (MDC328) |
| | | ..1. | | RBSRECRD | "BIT2" - ERROR RECORD TO BE WRITTEN TO THE LOGREC DATA SET (MDC329) |
| | | ...1 | | RBSCNCEL | "BIT3" - SCB IS LOGICALLY CANCELED (MDC330) |
| | | 1... | | RBSPRNTR | "BIT4" - SCB IS PREVIOUSLY ENTERED (MDC331) |
| | |1.. | | RBSBRNTR | "BIT5" - BRANCH ENTERED SVC 60 (MDC332) |
| | |1. | | RBSTERMO | "BIT6" - TERM PROCESSING ONLY (MDC333) |
| | |1 | | RBRSV168 | "BIT7" - RESERVED |
| 161 | (A1) | CHARACTER | 1 | RBSPKEY | - PROGRAM KEY (MDC334) |
| 162 | (A2) | CHARACTER | 1 | RBSID | - SCB IDENTIFIER (MDC335) |
| 163 | (A3) | BITSTRING | 1 | RBRSV169 | - RESERVED (MDC336) |
| 164 | (A4) | ADDRESS | 4 | RBSXPTR | - POINTER TO SCB EXTENSION (SCBX) (MDC347) |
| 168 | (A8) | SIGNED | 4 | SIRBEND (0) | - END OF SIRB MDC021-MDC022 |
| 168 | (A8) | SIGNED | 4 | RBFEPARM (6) | - PARAMETER AREA FOR ROUTINES THAT USE FESTAE AND DEFAULT TO USE THIS AREA (I.E., DO NOT CODE PARAM=) (MDC337) |
| 192 | (C0) | CHARACTER | 16 | RBSCBX (0) | - AREA CONTAINING STAE CONTROL BLOCK EXTENSION(SCBX)(SVRB ONLY) |
| 192 | (C0) | CHARACTER | 12 | | - FIRST 12 BYTES OF RBSCBX |
| 204 | (CC) | ADDRESS | 4 | RBSXPARM | - 31-BIT PARAMETER LIST ADDRESS |
| 208 | (D0) | SIGNED | 4 | SVRBEND (0) | - END OF SVRB (BOTH) (MDC338) |
| 12 | (C) | ADDRESS | 4 | RBCDE (0) | - SAME AS RBCDE1 BELOW |
| 12 | (C) | BITSTRING | 1 | RBCDFLGS | - CONTROL FLAGS |
| | | 1... | | RBNOCCELL | "BIT0" - EXIT SHOULD FREEMAIN THIS SVRB RATHER THAN FREECELL MDC008 |
| | | .1.. | | RBRSV009 | "BIT1,,C'X" - RESERVED |
| | | ..1. | | RBCDATCH | "BIT2" - CONTENTS SUPERVISION HAS BEEN ENTERED VIA ATTACH ICB444 |
| | | ...1 | | RBCDSAVE | "BIT3" - EXIT WILL LOAD REGISTERS FROM PRB ON RETURN FROM SYNCH TO ROUTINE (MDC345) |
| | | 1... | | RBCDNODE | "BIT4" - NO DE SAVE AREA REQUIRED ICB444 |
| | |1.. | | RBCDSYNC | "BIT5" - SYNCH MACRO INSTRUCTION REQUESTED |
| | |1. | | RBCDXCTL | "BIT6" - XCTL MACRO INSTRUCTION REQUESTED |
| | |1 | | RBCDLOAD | "BIT7" - LOAD MACRO INSTRUCTION REQUESTED |
| 13 | (D) | ADDRESS | 3 | RBCDE1 | - ADDRESS OF CDE, ADDRESS OF LPDE OR ZERO (SEE COMMENTS FOR BIT RBTRSVRB) |
| 24 | (18) | ADDRESS | 4 | RBSQE (0) | - SAME AS RBSQEA BELOW |
| 24 | (18) | SIGNED | 1 | | - RBUSE - CONTAINS ZEROS |
| 25 | (19) | ADDRESS | 3 | RBSQEA | - CHAIN OF SUPERVISOR QUEUE ELEMENTS (SQE'S) WHICH REPRESENT ASYNCHRONOUS SUPERVISOR SERVICE REQUESTS RELATED TO TCB UNDER WHICH TIRB IS PRESENTLY OPERATING (TIRB) |
| 24 | (18) | ADDRESS | 4 | RBIQE (0) | - LIST ORIGIN FOR IQE (IRB) |
| 24 | (18) | SIGNED | 1 | RBUSE | - USE COUNT USED BY ATTACH (IRB) |
| 25 | (19) | ADDRESS | 3 | RBIQE1 | - LIST ORIGIN FOR IQE (IRB) |
| 24 | (18) | SIGNED | 4 | RBIQE2 (0) | - |
| 24 | (18) | SIGNED | 4 | RBIQEA | - LIST ORIGIN FOR RQE (IRB WITH 4-BYTE LINK FIELD SEGMENT, SIRB) MDC006 |
| 96 | (60) | ADDRESS | 4 | RBNEXAV | - ADDRESS OF NEXT AVAILABLE IQE (IRB) |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|--|
| Dec | Hex | | | | |
| 100 | (64) | SIGNED | 4 | RBIQEWK | - IQE WORK SPACE, VARIABLE LENGTH, MAXIMUM SIZE IS 1984 BYTES (IRB) |
| 96 | (60) | CHARACTER | 64 | RBSIRBWA | - SIRB WORK AREA MDC022 |
| 160 | (A0) | ADDRESS | 4 | RBRSV161 | - RESERVED - RBRSV148 FOLLOWS THIS FIELD |
| 160 | (A0) | X'40' | 0 | SIRBWALN | "64" - LENGTH OF RBSIRBWA MDC023 |
| 160 | (A0) | X'40' | 0 | RBPRFXLN | "RBPRFXND-RBPRFXST" - TOTAL PREFIX LENGTH INCLUDING AREA RESERVED FOR FUTURE EXPANSION |
| 160 | (A0) | X'20' | 0 | RBPRFLNA | "RBPRFXND-RBPRFXST" - ASSIGNED PREFIX LENGTH |
| 160 | (A0) | X'88' | 0 | PRBLEN | "PRBEND-RBPRFXST" - REAL PRB LENGTH FOR GETMAIN |
| 160 | (A0) | X'C8' | 0 | SIRBLEN | "SIRBEND-RBPRFXST" - REAL SIRB LENGTH FOR GETMAIN |
| 160 | (A0) | X'88' | 0 | TIRBLEN | "TIRBEND-RBPRFXST" - REAL TIRB LENGTH FOR GETMAIN |
| 160 | (A0) | X'80' | 0 | IRBLEN | "IRBEND-RBPRFXST" - REAL IRB LENGTH FOR GETMAIN |
| 160 | (A0) | X'F0' | 0 | SVRBLEN | UNLESS OPTIONAL FIELDS ARE ALSO PRESENT "SVRBEND-RBPRFXST" - REAL SVRB LENGTH FOR GETMAIN |

RB Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|-----------|------------|-----------|----------|------------|-----------|
| IRBEND | 60 | | RBGRS0 | 20 | |
| IRBLEN | A0 | 80 | RBGRS1 | 24 | |
| PRBEND | 68 | | RBGRS10 | 48 | |
| PRBLEN | A0 | 88 | RBGRS11 | 4C | |
| RBABEND | -8 | 20 | RBGRS12 | 50 | |
| RBABOPSW | 4 | | RBGRS13 | 54 | |
| RBASIR | -8 | 8 | RBGRS14 | 58 | |
| RBATNXIT | A | 2 | RBGRS15 | 5C | |
| RBATTN | B | 20 | RBGRS2 | 28 | |
| RBBASIC | -40 | 40 | RBGRS3 | 2C | |
| RBCDATCH | C | 20 | RBGRS4 | 30 | |
| RBCDE | C | | RBGRS5 | 34 | |
| RBCDE1 | D | | RBGRS6 | 38 | |
| RBCDFLGS | C | | RBGRS7 | 3C | |
| RBCDLOAD | C | 1 | RBGRS8 | 40 | |
| RBCDNODE | C | 8 | RBGRS9 | 44 | |
| RBCDSAVE | C | 10 | RBINLNTH | -3 | |
| RBCDSYNC | C | 4 | RBINTCDA | -3 | |
| RBCDXCTL | C | 2 | RBINTCOD | -2 | |
| RBCIRB | -1A | C | RBIQE | 18 | |
| RBECBWT | B | 1 | RBIQEA | 18 | |
| RBEP | C | | RBIQENR | B | 8 |
| RBEPA | C | | RBIQETP | B | C |
| RBEPBYT | F | | RBIQEWK | 64 | |
| RBEPM | C | 80 | RBIQE1 | 19 | |
| RBEPD | F | 1 | RBIQE2 | 18 | |
| RBETXR | B | 10 | RBIRBAER | B | 4 |
| RBEXRTNM | 0 | | RBIRBAIQ | B | C |
| RBEXSAVE | 60 | | RBKEY | -1A | F0 |
| RBFACTV | B | 40 | RBKEYSTA | -1A | |
| RBFDYN | B | 2 | RBLINK | 1C | |
| RBFEPPARM | A8 | | RBLINKB | 1D | |
| RBFLAGS1 | -8 | | RBLONGWT | -8 | 4 |
| RBFLAGS2 | -19 | | RBNEXAV | 60 | |
| RBFLAGS3 | -7 | | RBNOCELL | C | 80 |
| RBFNsvrb | A | 10 | RBOPER | 10 | 40 |
| RBFTCKPT | A | 4 | RBOPSW | 10 | |
| RBFTIRB | A | 40 | RBOPSWA | 14 | |
| RBFTP | A | E0 | RBOPSWB1 | 10 | |
| RBFTPRB | A | 0 | RBOPSWB2 | 11 | |
| RBFTSIRB | A | 80 | RBOPSWB4 | 13 | |
| RBFTSVRB | A | C0 | RBOPSWM | 14 | 80 |
| RBFTTIRB | A | 60 | RBOPSWPS | 11 | 1 |
| RBGRSAVE | 20 | | RBOPSW31 | 14 | 80 |

RB Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|-----------|------------|-----------|----------|------------|-----------|
| RBOPSW64 | 13 | 1 | RBRSV137 | 66 | |
| RBPGMQ | 18 | | RBRSV138 | 67 | |
| RBPGMQ1 | 19 | | RBRSV139 | 67 | 80 |
| RBPM SVRB | A | 1 | RBRSV140 | 67 | 40 |
| RBPPSAV | 0 | | RBRSV141 | 67 | 20 |
| RBPPSAV1 | 1 | | RBRSV142 | 67 | 10 |
| RBPPREFIX | -40 | 0 | RBRSV143 | 67 | 8 |
| RBPRFLNA | A0 | 20 | RBRSV144 | 67 | 4 |
| RBPRFX | -40 | | RBRSV145 | 67 | 2 |
| RBPRFXLN | A0 | 40 | RBRSV146 | 67 | 1 |
| RBPRFXND | 0 | | RBRSV160 | -10 | |
| RBPRFXST | -20 | | RBRSV161 | A0 | |
| RBRQENR | B | 0 | RBRSV162 | 98 | 8 |
| RBRREQ | 0 | 3 | RBRSV164 | 9C | 20 |
| RBRSV005 | 0 | 20 | RBRSV165 | 9C | 8 |
| RBRSV009 | C | 40 | RBRSV166 | 9C | 4 |
| RBRSV012 | -40 | | RBRSV167 | A0 | 80 |
| RBRSV013 | -3C | | RBRSV168 | A0 | 1 |
| RBRSV014 | -38 | | RBRSV169 | A3 | |
| RBRSV015 | -36 | | RBRTICIL | -10 | |
| RBRSV016 | -35 | | RBRTILC | -F | |
| RBRSV017 | -34 | | RBRTINCD | -E | |
| RBRSV018 | -33 | | RBRTOPSW | -18 | |
| RBRSV019 | -32 | | RBRTPSW1 | -18 | |
| RBRSV020 | -32 | 80 | RBRTPSW2 | -10 | |
| RBRSV021 | -32 | 40 | RBRTTRAN | -C | |
| RBRSV022 | -32 | 20 | RBSAMODE | 9C | 80 |
| RBRSV023 | -32 | 10 | RBSASYNC | 98 | 4 |
| RBRSV024 | -32 | 8 | RBSBRNTR | A0 | 4 |
| RBRSV025 | -32 | 4 | RBSCB | -8 | 2 |
| RBRSV026 | -32 | 2 | RBSCBB | 90 | |
| RBRSV027 | -32 | 1 | RBSCBX | C0 | |
| RBRSV028 | -31 | | RBSCF | 1C | |
| RBRSV029 | -31 | 80 | RBSCHAIN | 90 | |
| RBRSV030 | -31 | 40 | RBSNCCEL | A0 | 10 |
| RBRSV031 | -31 | 20 | RBSDATA | A0 | |
| RBRSV032 | -31 | 10 | RBSDUMMY | 98 | 20 |
| RBRSV033 | -31 | 8 | RBSECT | 0 | 40 |
| RBRSV034 | -31 | 4 | RBSESTAE | 98 | 10 |
| RBRSV035 | -31 | 2 | RBSEXIT | 94 | |
| RBRSV036 | -31 | 1 | RBSFLGS1 | 98 | |
| RBRSV037 | -30 | | RBSFLGS2 | 9C | |
| RBRSV038 | -2C | | RBSFLG3 | A0 | |
| RBRSV039 | -28 | | RBSHALT | 98 | 1 |
| RBRSV040 | -26 | | RBSID | A2 | |
| RBRSV041 | -25 | | RBSINUSE | 9C | 10 |
| RBRSV042 | -25 | 80 | RBSIOPRC | 98 | 3 |
| RBRSV043 | -25 | 40 | RBSIRBWA | 60 | |
| RBRSV044 | -25 | 20 | RBSIZE | 8 | |
| RBRSV045 | -25 | 10 | RBSKEY0 | 9C | 2 |
| RBRSV046 | -25 | 8 | RBSLOCK | -8 | 80 |
| RBRSV047 | -25 | 4 | RBSNOIOP | 98 | 2 |
| RBRSV048 | -25 | 2 | RBSOWNR | 9C | |
| RBRSV049 | -25 | 1 | RBSOWNRA | 9D | |
| RBRSV050 | -24 | | RBSPARM | 98 | |
| RBRSV052 | -1C | | RBSPARMA | 99 | |
| RBRSV056 | -19 | 40 | RBSPKEY | A1 | |
| RBRSV057 | -19 | 20 | RBSPRNTR | A0 | 8 |
| RBRSV058 | -19 | 10 | RBSQE | 18 | |
| RBRSV059 | -19 | 8 | RBSQEA | 19 | |
| RBRSV060 | -19 | 4 | RBSRECRD | A0 | 20 |
| RBRSV061 | -19 | 2 | RBSSSYN | -8 | 1 |
| RBRSV062 | -19 | 1 | RBSSTAI | 98 | 80 |
| RBRSV135 | 60 | | RBSSTAR | 98 | 40 |
| RBRSV136 | 64 | | RBSSUPER | 9C | 1 |

| Name | Hex Offset | Hex Value |
|-----------|------------|-----------|
| RBSTAB | A | |
| RBSTAB1 | A | |
| RBSTAB2 | B | |
| RBSTATE | -1A | 1 |
| RBSTERMI | A0 | 40 |
| RBSTERMO | A0 | 2 |
| RBSXCTL2 | 9C | 40 |
| RBSXPARM | CC | |
| RBSXPTR | A4 | |
| RBTCBNXT | B | 80 |
| RBTMCMP | 0 | 8 |
| RBTMFLD | 0 | |
| RBTMIND2 | 0 | 4 |
| RBTMIND3 | 0 | 3 |
| RBTMQUE | 0 | 80 |
| RBTMTOD | 0 | 40 |
| RBTRREQ | 0 | 0 |
| RBTRSVRB | A | 10 |
| RBUSE | 18 | |
| RBUSIQE | B | 10 |
| RBWAITP | A | 8 |
| RBWCF | 1C | |
| RBWCSA | -4 | |
| RBWLIC | -4 | |
| RBWLIM | 0 | 10 |
| RBWREQ | 0 | 1 |
| RBWTECB | -7 | 80 |
| RBXSB | -20 | |
| RBXWAIT | -8 | 40 |
| RBXWAITA | -19 | 80 |
| RBXWAITI | -6 | |
| RBXWPRM | -8 | 10 |
| SIRBEND | A8 | |
| SIRBLEN | A0 | C8 |
| SIRBWALN | A0 | 40 |
| SVRBEND | D0 | |
| SVRBLEN | A0 | F0 |
| TIRBEND | 68 | |
| TIRBLEN | A0 | 88 |
| XRBACTV | B | 40 |
| XRBACKPT | A | 4 |
| XRBESE | 60 | |
| XRBFRRB | B | 2 |
| XRBLNK | 1C | |
| XRBLNKA | 1D | |
| XRBPSPW | 10 | |
| XRBRREG | 20 | |
| XRBRREG0 | 20 | |
| XRBRREG1 | 24 | |
| XRBRREG10 | 48 | |
| XRBRREG11 | 4C | |
| XRBRREG12 | 50 | |
| XRBRREG13 | 54 | |
| XRBRREG14 | 58 | |
| XRBRREG15 | 5C | |
| XRBRREG2 | 28 | |
| XRBRREG3 | 2C | |
| XRBRREG4 | 30 | |
| XRBRREG5 | 34 | |
| XRBRREG6 | 38 | |
| XRBRREG7 | 3C | |
| XRBRREG8 | 40 | |
| XRBRREG9 | 44 | |
| XRBTCPB | B | 80 |
| XRWAIT | B | 1 |

| Name | Hex Offset | Hex Value |
|--------|------------|-----------|
| XRBTWT | 1C | |
| XSTAB | A | |
| XSTAB1 | A | |
| XSTAB2 | B | |

RBCB Heading Information

Common Name: Recovery Termination Management Recording Buffers Control Block
Macro ID: RTMRBCB
DSECT Name: N/A
Owning Component: N/A
Eye-Catcher ID: N/A
 Offset: N/A
 Length: N/A
Storage Attributes: Main Storage: N/A
 Virtual Storage: N/A
 Auxiliary Storage: N/A
 Subpool: N/A
 Key: N/A
 Data Space: N/A
 Residency: N/A
Size: N/A
Created by: IEAVNPA6 at NIP time.
Pointed to by: CVTRBCB field of the CVT
Serialization: Individual fields serialized by CS instructions.
Function: The RTMRBCB maps the central control block of the Recording Facility.

RBCB Map

| Offsets | | | | | |
|---------|------|------------|-----|------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 100 | RBCB | |
| 0 | (0) | CHARACTER | 4 | RBCBRBCB | Acronym field of RBCB |
| 4 | (4) | SIGNED | 4 | RBCBECB | Recording ECB WAITed on by record task, POSTed by record request routine |
| 8 | (8) | CHARACTER | 4 | RBCBFLGS | Information flags. |
| 8 | (8) | BITSTRING | 1 | RBCBFLG1 | First flag byte. |
| | | 1... | | RBCBRPER | Recording permanent error |
| | | .1.. | | RBCBSIU | On/SRB in use, off/SRB not in use. |
| | | ..11 1111 | | * | Reserved |
| 9 | (9) | CHARACTER | 3 | * | Reserved |
| 12 | (C) | SIGNED | 4 | RBCBLCNT | Count of lost records |
| 16 | (10) | CHARACTER | 16 | RBCBBDAT | Buffer ptrs and lengths |
| 16 | (10) | ADDRESS | 4 | RBCBLRCB | Address of LOGREC buffer |
| 20 | (14) | SIGNED | 4 | RBCBLEN | Length of LOGREC buffer |
| 24 | (18) | ADDRESS | 4 | RBCBWRCB | Address of WTO buffer |
| 28 | (1C) | SIGNED | 4 | RBCBWLEN | Length of WTO buffer |
| 32 | (20) | CHARACTER | 24 | RBCBPDAT | Maximum and current allocation of buffer partitions |
| 32 | (20) | SIGNED | 4 | RBCBHMAX | Hardware maximum |
| 36 | (24) | SIGNED | 4 | RBCBHSIZ | Hardware current |
| 40 | (28) | SIGNED | 4 | RBCBCMAX | SYMREC maximum |
| 44 | (2C) | SIGNED | 4 | RBCBCSIZ | SYMREC current |
| 48 | (30) | SIGNED | 4 | RBCBSMAX | Software maximum |
| 52 | (34) | SIGNED | 4 | RBCBSSIZ | Software current |
| 56 | (38) | CHARACTER | 44 | RBCBSRB | SRB used to POST the Recording task |

RBCB Cross Reference

RBCB Cross Reference

| Name | Hex Offset | Hex Value |
|----------|---------------|--------------|
| RBCB | 0 | |
| RBCBBDAT | 10 | |
| RBCBCMAX | 28 | |
| RBCBCSIZ | 2C | |
| RBCBECB | 4 | |
| RBCBFLGS | 8 | |
| RBCBFLG1 | 8 | |
| RBCBHMAX | 20 | |
| RBCBHSIZ | 24 | |
| RBCBLCNT | C | |
| RBCBLLEN | 14 | |
| RBCBLRCB | 10 | |
| RBCBPDAT | 20 | |
| RBCBRBCB | 0 | |
| RBCBRPER | 8 | 80 |
| RBCBSIU | 8 | 40 |
| RBCBSMAX | 30 | |
| RBCBSRB | 38 | |
| RBCBSSIZ | 34 | |
| RBCBWLEN | 1C | |
| RBCBWRCB | 18 | |

RCB Heading Information

Common Name: Recovery Termination Management Recording Control Buffer
Macro ID: RTMRCB
DSECT Name: N/A
Owning Component: N/A
Eye-Catcher ID: N/A
 Offset: N/A
 Length: N/A
Storage Attributes: Main Storage: N/A
 Virtual Storage: N/A
 Auxiliary Storage: N/A
 Subpool: N/A
 Key: N/A
 Data Space: N/A
 Residency: N/A
Size: N/A
Created by: IEAVNPA6 at NIP time.
Pointed to by: RCBBLRCB field of the RCB (LOGREC buffer)
 RCBWRCB field of the RCB (WTO buffer)
Serialization: Individual fields serialized by CS instructions.
Function: RTMRCB maps the buffers used by the Recording Facility. The addresses of these buffers are kept in the RCBBLRCB and RCBWRCB buffers of the Recording Buffers Control Block (RCB). The RCB is pointed to by the CVTRCB field of the CVT. The CVT and RCB mapping macros are needed to access this mapping.

RCB Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | * | RCB | Record Control Block |
| 0 | (0) | CHARACTER | 96 | RCBCNTL | Control portion of buffer |
| 0 | (0) | CHARACTER | 4 | RCBRCB | Acronym field for RCB |
| 4 | (4) | ADDRESS | 4 | RCBBUFB | Beginning of buffer area |
| 8 | (8) | ADDRESS | 4 | RCBBUFE | End of buffer area |
| 12 | (C) | SIGNED | 4 | RCBTLNG | Total buffer length |
| 16 | (10) | CHARACTER | 8 | RCBCDS | Must be double word origin for CDS instruction. |
| 16 | (10) | ADDRESS | 4 | RCBFREE | Next free area in buffer |
| 20 | (14) | SIGNED | 4 | RCBFLNG | Length of free area |
| 24 | (18) | SIGNED | 4 | RCBACNT | Active count |
| 28 | (1C) | BITSTRING | 4 | RCBFLGS | Word of flags |
| 28 | (1C) | CHARACTER | 1 | RCBBFLG | Buffer flags |
| | | 1... | | RCBRTER | Temporary error |
| | | .1... | | RCBRERT | IEAVTRER temp error |
| | | ..11 1111 | | * | Reserved |
| 29 | (1D) | CHARACTER | 3 | * | Reserved |
| 32 | (20) | CHARACTER | 64 | * | Reserved |
| 96 | (60) | CHARACTER | * | RCBBUFRS | Buffer area for records |

RCB Cross Reference

RCB Cross Reference

| Name | Hex Offset | Hex Value |
|----------|---------------|--------------|
| RCB | 0 | |
| RCBACNT | 18 | |
| RCBBFLG | 1C | |
| RCBBUFB | 4 | |
| RCBBUFE | 8 | |
| RCBBUFRS | 60 | |
| RCBCDS | 10 | |
| RCBCNTL | 0 | |
| RCBFLGS | 1C | |
| RCBFLNG | 14 | |
| RCBFREE | 10 | |
| RCBRCB | 0 | |
| RCBRERT | 1C | 40 |
| RCBRTER | 1C | 80 |
| RCBTLNG | C | |

RCBE Heading Information

Common Name: RTM Record Control Buffer Entry
Macro ID: RTMRCBE
DSECT Name: RCBENTRY
Owning Component: Recovery Termination Manager (SCRTM)
Eye-Catcher ID: None
Storage Attributes: Subpool: 239 and 250
 Key: 0
Size: Variable
Created by: IEAVTRER when a request for recording is made via the internal RECORD macro.
Pointed to by: Indirectly via control information in the RTMRCB.
Serialization: Compare and Swap on fields in the RCB.
Function: The RTMRCBE maps each entry in the RTMRCB buffer. It is built largely by IEAVTRER and contains information that is to be recorded as requested via the internal RECORD macro. IEAVTRET copies this information to a private buffer before writing it to LOGREC or via a WTO request. This mapping is also used by IEAVTREM at memory termination to determine if there are any incomplete entries that must be freed.

RCBE Map

| Offsets | | | | | |
|---------|------|------------|-----|------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | * | RCBENTRY | Map an entry in RTMRCB |
| 0 | (0) | CHARACTER | 16 | RCBECNTL | Header information |
| 0 | (0) | CHARACTER | 8 | RCBECTL1 | First double word of header |
| 0 | (0) | UNSIGNED | 2 | RCBELEN | Entry length of data to be written. This does not include the errorid length for nonbuffered entries or the length of the timestamp for WTO entries |
| 2 | (2) | BITSTRING | 2 | RCBEFLGS | Flags describing this entry |
| 2 | (2) | BITSTRING | 1 | RCBEFLG1 | First byte of flags |
| | | 1... .. | | RCBELREC | On, LOGREC destined entry |
| | | .1.. .. | | RCBEWTO | On, WTO type entry |
| | | ..11 1111 | | * | (reserved) |
| 3 | (3) | BITSTRING | 1 | RCBEFLG2 | Second byte of flags |
| | | 1... .. | | RCBECOPY | On, entry was copied from sq a rcb to work buffer |
| | | .1.. .. | | RCBEWRAP | On, entry wraps RCB |
| | | ..1. | | RCBEFRES | On, free nonbuffered entry |
| | | ...1 | | RCBERIV | On, indicates entry is invalid |
| | | 1... | | RCBENBFR | On, nonbuffered entry |
| | |1.. | | RCBEPOST | On, POSTing required |
| | |1. | | RCBEERFG | On, errorid appended - Applies to nonbuffered entries only |
| | |1 | | RCBERDY | On, entry is ready |
| 4 | (4) | CHARACTER | 4 | RCBEIDS | Word used in STCTL inst |
| 4 | (4) | UNSIGNED | 2 | RCBEHASI | ASID of home address space |
| 6 | (6) | UNSIGNED | 2 | RCBEPASI | ASID of primary address space |
| 8 | (8) | CHARACTER | 8 | RCBECTL2 | Second dword of header |
| 8 | (8) | ADDRESS | 4 | RCBEECB | ECB to be POSTed |
| 12 | (C) | CHARACTER | 1 | RCBESUBP | Subpool number for frestor |
| 13 | (D) | UNSIGNED | 1 | RCBERTYP | LOGREC record type |
| 14 | (E) | UNSIGNED | 2 | RCBEASID | ASID for POSTing |
| 16 | (10) | CHARACTER | * | RCBEDATA | Start of data |

RCBE Cross Reference

RCBE Cross Reference

| Name | Hex Offset | Hex Value |
|----------|---------------|--------------|
| RCBEASID | E | |
| RCBECNTL | 0 | |
| RCBECOPY | 3 | 80 |
| RCBECTL1 | 0 | |
| RCBECTL2 | 8 | |
| RCBEDATA | 10 | |
| RCBEECB | 8 | |
| RCBEERFG | 3 | 02 |
| RCBEFLGS | 2 | |
| RCBEFLG1 | 2 | |
| RCBEFLG2 | 3 | |
| RCBEFRES | 3 | 20 |
| RCBEHASI | 4 | |
| RCBEIDS | 4 | |
| RCBELEN | 0 | |
| RCBELREC | 2 | 80 |
| RCBENBFR | 3 | 08 |
| RCBENTRY | 0 | |
| RCBEPASI | 6 | |
| RCBEPOST | 3 | 04 |
| RCBERDY | 3 | 01 |
| RCBERIV | 3 | 10 |
| RCBERTYP | D | |
| RCBESUBP | C | |
| RCBEWRAP | 3 | 40 |
| RCBEWTO | 2 | 40 |

RCE Programming Interface information

 Programming Interface information

RCE

ONLY the following fields are part of the programming interface information:

- | | | | |
|------------|-------------|------------|-------------|
| • RCEABVFX | • RCEDBFRM | • RCEHSPRR | • RCESPGPO |
| • RCEAEC | • RCEDFC | • RCEHSPRW | • RCESTLTI |
| • RCEAFC | • RCEDFRS | • RCELPABI | • RCESWPPI |
| • RCEAFCLO | • RCEDRIPS | • RCELPAPI | • RCESWPPPO |
| • RCEAFCOK | • RCEDRIRS | • RCELPARC | • RCETOTFX |
| • RCEBELFX | • RCEESINU | • RCELSIRS | • RCETOTPI |
| • RCEBELPL | • RCEESPI | • RCEMIGAI | • RCETOTPO |
| • RCEBELSF | • RCEESPL | • RCEMBEL | • RCETOTRC |
| • RCEBLPIA | • RCEESREA | • RCENWSF | • RCETOTSF |
| • RCEBLPIE | • RCEESSPI | • RCEPAGMV | • RCETOTSG |
| • RCEBLSTA | • RCEESSPO | • RCEPBAFC | • RCEVIOME |
| • RCEBLSTE | • RCEESST | • RCEPOOL | • RCEVIOMG |
| • RCEBPPIA | • RCEESWRT | • RCERAX | • RCEVIOMR |
| • RCEBPPIE | • RCEFIXB1 | • RCERET | • RCEVIOPI |
| • RCEBPSTA | • RCEFIXB2 | • RCERSQA | • RCEVIOPO |
| • RCEBPSTE | • RCEHSPERM | • RCESGAUX | • RCEVIORE |
| • RCECOMBI | • RCEHSPER | • RCESGINE | • RCEVIORR |
| • RCECOMPI | • RCEHSPEW | • RCESGINR | • RCEVIORU |
| • RCECOMPO | • RCEHSPPI | • RCESPFRR | • RCEWSDNE |
| • RCECOMRC | • RCEHSPPO | • RCESPGPI | |

 End of Programming Interface information

RCE Heading Information

Common Name: RSM Control and Enumeration Area
Macro ID: IARRCE
DSECT Name: RCE
Owning Component: Real Storage Manager (SC1CR)
Eye-Catcher ID: RCE
Offset: 0
Length: 4
Storage Attributes: Virtual Storage: Yes
Subpool: Extended Nucleus
Key: 0
Data Space: No
Residency: Above 16 megabytes virtual
Size: RCELEN bytes
Created by: IARMR
Pointed to by: CVTRCEP field of the CVT data area
Serialization: Field dependent
Function: The RCE contains system wide counts and control information used by RSM, and other components that interface with RSM, such as SRM, VSM, Etc.

RCE Map

| Offsets | | | | | |
|---------|------|------------|-----|------------|--|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 0 | (0) | STRUCTURE | 0 | RCE | RCE |
| 0 | (0) | CHARACTER | 1 | RCEID (4) | RCE CONTROL BLOCK ID |
| 4 | (4) | SIGNED | 4 | RCEPOOL | NUMBER OF FRAMES CURRENTLY AVAILABLE TO SYSTEM. EXCLUDED ARE FRAMES BACKING PERM STORAGE, FRAMES OFFLINE, AND BAD FRAMES THE SAME AS RCEPOOL EXCEPT THAT ONLY FRAMES BELOW 16M REAL ARE COUNTED. |
| 8 | (8) | SIGNED | 4 | RCEBELPL | FIXED FRAME THRESHOLD. SRM IS NOTIFIED WHEN THE TOTAL NUMBER OF FIXED FRAMES BELOW 16M REAL INCREASES TO THIS VALUE. |
| 12 | (C) | SIGNED | 4 | RCMAXFX | PAGE FIXES ARE DEFERRED IF THE NUMBER OF AVAILABLE FRAMES IS EQUAL TO OR LESS THAN THIS VALUE. |
| 16 | (10) | SIGNED | 4 | RCEDEFFX | MINIMUM NUMBER OF RPBs WHICH SHOULD BE BUILT WHENEVER THE RPB POOL IS EXPANDED. |
| 20 | (14) | SIGNED | 2 | RCERPBEX | RESERVED |
| 22 | (16) | SIGNED | 2 | | |
| 24 | (18) | SIGNED | 4 | RCEAFCLO | AFQ LOW THRESHOLD. SRM IS NOTIFIED IF THE NUMBER OF AVAILABLE FRAMES FALLS BELOW THIS VALUE. |
| 28 | (1C) | SIGNED | 4 | RCEAFCOK | AFQ SATISFACTORY THRESHOLD. SRM IS NOTIFIED ONCE THE NUMBER OF AVAILABLE FRAMES INCREASES TO THIS VALUE. |
| 32 | (20) | SIGNED | 4 | RCERSQA | NUMBER OF TIMES A RESERVED SQA QUEUE FRAME WAS USED TO BACK AN SQA PAGE. |
| 36 | (24) | SIGNED | 4 | RCEDFRS | NUMBER OF TIMES A DEFERRED REQUEST HAS BEEN SATISFIED. |
| 40 | (28) | SIGNED | 4 | RCEPRKPR | AVAILABLE FRAME THRESHOLD ABOVE WHICH PAGE RELEASE WILL KEEP RELEASED PAGES BACKED WITH REAL |
| 44 | (2C) | SIGNED | 4 | RCESPFR | NUMBER OF FRAMES MADE AVAILABLE BY SWAP-OUT WITHOUT REQUIRING I/O. |
| 48 | (30) | SIGNED | 4 | RCEVIORU | NUMBER OF TIMES A VIO DATA SET PAGE WAS REUSED. |
| 52 | (34) | SIGNED | 4 | RCETOTRC | TOTAL NUMBER OF TIMES A PAGE WAS RECLAIMED FROM AN AFQ. This field will always be 0 as of JBB4422 |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|---|
| Dec | Hex | | | | |
| 56 | (38) | SIGNED | 4 | RCECOMRC | NUMBER OF COMMON AREA PAGES WHICH HAVE BEEN RECLAIMED FROM AN AFQ. This field will always be 0 as of JBB4422 |
| 60 | (3C) | SIGNED | 4 | RCELPARC | NUMBER OF PLPA AND PLPA DIRECTORY PAGES RECLAIMED FROM AN AFQ. This field will always be 0 as of JBB4422 |
| 64 | (40) | SIGNED | 4 | RCEPBAFL | PREFERRED BELOW AVAILABLE FRAME COUNT THRESHOLD. USED BY GETFRAME WHEN STEALING |
| 68 | (44) | SIGNED | 4 | RCETOTPI | TOTAL NUMBER OF PAGES PAGED-IN EXCLUDING SWAP-IN, VIO, AND HIPERSPACE PAGE-INS. |
| 72 | (48) | SIGNED | 4 | RCECOMPI | NUMBER OF COMMON AREA PAGES PAGED-IN. |
| 76 | (4C) | SIGNED | 4 | RCELPAPI | NUMBER OF PLPA AND PLPA DIRECTORY PAGES PAGED-IN. |
| 80 | (50) | SIGNED | 4 | RCESWPPI | TOTAL NUMBER OF PAGES REQUIRING I/O TO SWAP-IN. |
| 84 | (54) | SIGNED | 4 | RCEVIOPI | TOTAL NUMBER OF VIO PAGES PAGED-IN EXCLUDING SWAP-IN. |
| 88 | (58) | SIGNED | 4 | RCETOTPO | TOTAL NUMBER OF PAGES PAGED-OUT EXCLUDING SWAP-OUT, VIO PAGE-OUT, VIO MOVEOUT, AND HIPERSPACE PAGES |
| 92 | (5C) | SIGNED | 4 | RCECOMPO | NUMBER OF COMMON AREA PAGES PAGED-OUT |
| 96 | (60) | SIGNED | 4 | RCESWPPO | TOTAL NUMBER OF PAGES REQUIRING I/O TO SWAP-OUT, EXCLUDING MIGRATION SWAPS |
| 100 | (64) | SIGNED | 4 | RCEVIOPO | TOTAL NUMBER OF VIO PAGES (EXCLUDES SWAP-OUT) MOVED-OUT OR PAGED-OUT. |
| 104 | (68) | CHARACTER | 4 | RCEWLM (0) | Work Load Manager related fields |
| 104 | (68) | SIGNED | 1 | RCEESTTS | Expanded STorage Time Stamp - set by SRM (ESA Mode Only, Not used for ESAME) |
| 105 | (69) | SIGNED | 1 | RCEESTB1 | Expanded STorage UIC delimiter value 1 Set by SRM (ESA Mode Only, Not used for ESAME) |
| 106 | (6A) | SIGNED | 1 | RCEESTB2 | Expanded STorage UIC delimiter value 2 Set by SRM (ESA Mode Only, Not used for ESAME) |
| 107 | (6B) | SIGNED | 1 | RCEESTB3 | Expanded STorage UIC delimiter value 3 Set by SRM (ESA Mode Only, Not used for ESAME) |
| 108 | (6C) | SIGNED | 4 | RCEVIOME | NUMBER OF VIO DATA SET PAGES MOVED OUT TO EXPANDED STORAGE (ESA Mode Only, Not used for ESAME) |
| 112 | (70) | SIGNED | 4 | RCEVIORE | NUMBER OF VIO DATA SET PAGES READ FROM EXPANDED STORAGE (ESA Mode Only, Not used for ESAME) |
| 116 | (74) | SIGNED | 4 | RCEVIOMG | NUMBER OF VIO DATA SET PAGES MIGRATED FROM EXPANDED TO AUXILIARY STORAGE (ESA Mode Only, Not used for ESAME) |
| 120 | (78) | SIGNED | 4 | RCETOTFX | TOTAL NUMBER OF PAGES CURRENTLY FIXED. IT IS THE SUM OF PAGE-FIXED, LSQA, SQA (EXCL RSVD SQA), AND V=R ALLOCATED PAGES. IT DOES NOT INCLUDE STEALABLE FIXED PAGES OF LOGICALLY SWAPPED ADDRESS SPACES. THIS COUNT IS SERIALIZED BY C/S. |
| 124 | (7C) | SIGNED | 4 | RCEBELFX | THE SAME AS RCETOTFX EXCEPT THAT ONLY PAGES BACKED BELOW 16M REAL ARE COUNTED. THIS COUNT IS SERIALIZED BY C/S. |
| 128 | (80) | SIGNED | 4 | RCERAX | ADDRESS OF THE COMMON RAX |
| 132 | (84) | SIGNED | 4 | RCEPBAFC | TOTAL NUMBER OF FRAMES CURRENTLY ON THE PREFERRED BELOW AVAILABLE FRAME QUEUE. |
| 136 | (88) | SIGNED | 4 | RCEAFC | TOTAL NUMBER OF FRAMES CURRENTLY ON ALL AVAILABLE FRAME QUEUES. |
| 140 | (8C) | SIGNED | 4 | RCEDFC | NUMBER OF FRAME PAIRS ON DBL FRAME QUEUES PLUS ANY PAIRS SELECTED TO BE ADDED PLUS ANY PAIRS CURRENTLY IN USE |
| 144 | (90) | SIGNED | 4 | RCEPAGMV | NUMBER OF TIMES A PAGE WAS MOVED FROM ONE FRAME TO ANOTHER. |
| 148 | (94) | SIGNED | 4 | RCEAEC | TOTAL NUMBER OF EXTENDED STORAGE E-FRAMES CURRENTLY ON THE AVAILABLE ESTE QUEUE EXCLUDING THOSE RESERVED FOR PREF STEAL. (ESA Mode Only, Not used for ESAME) |

RCE Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|------------|--|
| Dec | Hex | | | | |
| 152 | (98) | SIGNED | 4 | RCEAECLO | ESTE LOW THRESHOLD. SRM IS NOTIFIED IF THE NUMBER OF AVAILABLE ESTES FALLS BELOW THIS VALUE. (ESA Mode Only, Not used for ESAME) |
| 156 | (9C) | SIGNED | 4 | RCEAECOK | ESTE SATISFACTORY THRESHOLD. (ESA Mode Only, Not used for ESAME) |
| 160 | (A0) | SIGNED | 4 | RCEESPL | THE TOTAL NUMBER OF EXTENDED STORAGE E-FRAMES CURRENTLY AVAILABLE TO THE SYSTEM. EXTENDED STORAGE E-FRAMES EXCLUDED ARE THOSE OFFLINE, AND BAD EXTENDED STORAGE E-FRAMES ONCE THEY ARE MARKED OFFLINE. (ESA Mode Only, Not used for ESAME) |
| 164 | (A4) | SIGNED | 4 | RCEESINU | THE NUMBER OF IN USE EXTENDED STORAGE E-FRAMES. (ESA Mode Only, Not used for ESAME) |
| 168 | (A8) | SIGNED | 4 | RCEESWRT | THE NUMBER OF PAGES WRITTEN OUT TO EXTENDED STORAGE. (ESA Mode Only, Not used for ESAME) |
| 172 | (AC) | SIGNED | 4 | RCEESREA | THE NUMBER OF PAGES READ FROM EXTENDED STORAGE. (ESA Mode Only, Not used for ESAME) |
| 176 | (B0) | SIGNED | 4 | RCEGROUP | THE MAXIMUM NUMBER OF FRAMES THAT MAY BE USED FOR MIGRATION. |
| 180 | (B4) | SIGNED | 4 | RCECOMBI | Common Blocked Page in Count |
| 184 | (B8) | SIGNED | 4 | RCEMBEL | NUMBER OF PAGES MOVED TO SATISFY BELOW REQUESTS |
| 188 | (BC) | SIGNED | 4 | RCEFRQM | MINIMUM NUMBER OF RPBS ON THE FRQ DURING THE LAST SAMPLING PERIOD |
| 192 | (C0) | SIGNED | 4 | RCEWRAPS | A TOKEN REPRESENTING THE LATEST PASS (OF THE LRU PHASE OF EXTENDED STORE MIGRATION) THROUGH THE EST. (ESA Mode Only, Not used for ESAME) |
| 196 | (C4) | SIGNED | 4 | RCENWSP | TOTAL NUMBER OF CHANGED NON-WORKING SET PAGES AND SECONDARY WORKING SET PAGES READY FOR MIGRATION (ESA Mode Only, Not used for ESAME) |
| 200 | (C8) | SIGNED | 4 | RCENWSS | TOTAL NUMBER OF CHANGED NON-WORKING SET PAGES AND SECONDARY WORKING SET PAGES WHICH HAVE STARTED MIGRATION. (ESA Mode Only, Not used for ESAME) |
| 204 | (CC) | SIGNED | 4 | RCENWSF | TOTAL NUMBER OF CHANGED NON-WORKING SET PAGES AND SECONDARY WORKING SET PAGES WHICH HAVE COMPLETED MIGRATION. THIS COUNT IS SERIALIZED BY C/S. (ESA Mode Only, Not used for ESAME) |
| 208 | (D0) | SIGNED | 4 | RCEWSPRP | NUMBER OF PRIMARY WORKING SET PAGES READY FOR MIGRATION. THIS COUNT IS SERIALIZED BY C/S. (ESA Mode Only, Not used for ESAME) |
| 212 | (D4) | SIGNED | 4 | RCEWSDNE | NUMBER OF PRIMARY WORKING SET PAGES WHICH HAVE COMPLETED MIGRATION. THIS COUNT IS SERIALIZED BY C/S. (ESA Mode Only, Not used for ESAME) |
| 216 | (D8) | SIGNED | 4 | RCELPABI | PLPA Blocked Page in Count |
| 220 | (DC) | SIGNED | 4 | RCEDRIPS | NUMBER OF DREF PAGES IN PROCESSOR STORAGE. |
| 224 | (E0) | SIGNED | 4 | RCEFRQC | NUMBER OF RPBS ON THE FRQ |
| 228 | (E4) | SIGNED | 4 | RCEDBFRM | NUMBER OF DOUBLE FRAME PAIRS CURRENTLY IN USE BY THE SYSTEM |
| 232 | (E8) | SIGNED | 4 | RCEDRIRS | NUMBER OF DREF PAGES IN REAL |
| 236 | (EC) | SIGNED | 4 | RCELSIRS | NUMBER OF LSQA PAGES IN REAL |
| 240 | (F0) | SIGNED | 4 | RCERET | TARGET NUMBER OF EXPANDED STORAGE E-FRAMES TO BE RESERVED FOR PREF STEAL (ESA Mode Only, Not used for ESAME) |
| 244 | (F4) | SIGNED | 4 | RCEMIGAI | NUMBER OF FRAMES THAT MIGRATION DID NOT HAVE TO DO I/O FOR (ESA Mode Only, Not used for ESAME) |
| 248 | (F8) | SIGNED | 4 | RCEWSACT | NUMBER OF WORK/SAVE AREAS ON THE AVAILABLE WSA QUEUE. NOT SERIALIZED |
| 252 | (FC) | SIGNED | 4 | RCEWSAM | MINIMUM NUMBER OF WSAS ON THE AVAILABLE WSA QUEUE DURING THE LAST SAMPLING PERIOD |
| 256 | (100) | SIGNED | 4 | RCEHSPEW | TOTAL NUMBER OF HIPERSPACE PAGES WRITTEN TO EXPANDED STORAGE (ESA Mode Only, Not used for ESAME) |
| 260 | (104) | SIGNED | 4 | RCEHSPER | TOTAL NUMBER OF HIPERSPACE PAGES READ FROM EXPANDED STORAGE (ESA Mode Only, Not used for ESAME) |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---|-------|------------|-----|--------------|---|
| Dec | Hex | | | | |
| 264 | (108) | SIGNED | 4 | RCEHSPEM | TOTAL NUMBER OF HIPERSPACE PAGES MIGRATED FROM EXPANDED STORAGE (ESA Mode Only, Not used for ESAME) |
| 268 | (10C) | SIGNED | 4 | RCEHSPPO | TOTAL NUMBER OF HIPERSPACE PAGES PAGED OUT TO AUXILIARY STORAGE |
| 272 | (110) | SIGNED | 4 | RCEHSPPI | TOTAL NUMBER OF HIPERSPACE PAGES PAGED-IN FROM AUXILIARY STORAGE |
| 276 | (114) | SIGNED | 4 | RCESTABL | TOTAL NUMBER OF FIXED PAGES IN LOGICALLY SWAPPED ADDRESS SPACES ELIGIBLE TO BE STOLEN |
| 280 | (118) | SIGNED | 4 | RCEFXSTL | NUMBER OF FIXED PAGES IN LOGICALLY SWAPPED ADDRESS SPACES THAT WERE BACKED BY REAL BELOW 16 MEGABYTES (For ESA Mode, the frames are currently stolen to Expanded) |
| Comment | | | | | |
| FOR THE FOLLOWING FIELDS, THE IMPLICIT BOUNDS OF UIC RANGE ARE 0 AND 255. SRM SETS THE OTHER 3 INTERMEDIATE VALUES. | | | | | |
| End of Comment | | | | | |
| 284 | (11C) | SIGNED | 2 | RCEFRV1 | FRAME UIC RANGE VALUE 1 SET BY SRM |
| 286 | (11E) | SIGNED | 2 | RCEFRV2 | FRAME UIC RANGE VALUE 2 SET BY SRM |
| 288 | (120) | SIGNED | 2 | RCEFRV3 | FRAME UIC RANGE VALUE 3 SET BY SRM |
| 290 | (122) | SIGNED | 2 | RCEFRV4 | RESERVED for RSM (set to 256) |
| 292 | (124) | SIGNED | 4 | RCEBPPIE | NUMBER OF BLOCKED PAGES PAGED IN FROM EXPANDED STORAGE (ESA Mode Only, Not used for ESAME) |
| 296 | (128) | SIGNED | 4 | RCEBPPIA | NUMBER OF BLOCKED PAGES PAGED IN FROM AUXILIARY STORAGE |
| 300 | (12C) | SIGNED | 4 | RCEBPSTE | NUMBER OF BLOCKED PAGES STOLEN TO EXPANDED STORAGE (ESA Mode Only, Not used for ESAME) |
| 304 | (130) | SIGNED | 4 | RCEBPSTA | NUMBER OF BLOCKED PAGES STOLEN TO AUXILIARY STORAGE |
| 308 | (134) | SIGNED | 4 | RCEBLPIE | NUMBER OF BLOCKS OF PAGES PAGED IN FROM EXPANDED STORAGE (ESA Mode Only, Not used for ESAME) |
| 312 | (138) | SIGNED | 4 | RCEBLPIA | NUMBER OF BLOCKS OF PAGES PAGED IN FROM AUXILIARY STORAGE |
| 316 | (13C) | SIGNED | 4 | RCEBLSTE | NUMBER OF BLOCKS OF PAGES STOLEN TO EXPANDED STORAGE (ESA Mode Only, Not used for ESAME) |
| 320 | (140) | SIGNED | 4 | RCEBLSTA | NUMBER OF BLOCKS OF PAGES STOLEN TO AUXILIARY STORAGE |
| 324 | (144) | SIGNED | 4 | RCEESPI | NUMBER OF PAGES FAULTED IN FROM EXPANDED (ESA Mode Only, Not used for ESAME) |
| 328 | (148) | SIGNED | 4 | RCEESST | NUMBER OF PAGES STOLEN OUT TO EXPANDED (ESA Mode Only, Not used for ESAME) |
| 332 | (14C) | SIGNED | 4 | RCEFLAGS | FLAGS |
| 332 | (14C) | X'50' | 0 | RCEFIXAB | "80" SRM SAYS GO TO EXTRA EFFORTS TO PREVENT PAGE FIXED PAGES THAT CAN GO ANYWHERE FROM BEING FIXED IN BELOW STORAGE |
| 332 | (14C) | X'28' | 0 | RCESSINH | "40" SRM has inhibited self steal |
| 332 | (14C) | X'14' | 0 | RCENORCF | "20" Indicates there is no reconfigurable storage on this system. This flag is set at IPL time and never changed. |
| 332 | (14C) | X'A' | 0 | RCERCFOX | "10" Indicates that reconfigurable storage exists. This flag is set at NIP and |
| 332 | (14C) | X'8' | 0 | RCEPIOOK | "08" Indicates that SRM finds there is no backup of paging requests in ASM. (Average requests outstanding < 1/8 of all PCCWs.) |
| 332 | (14C) | X'4' | 0 | RCEFAUXS | "04" Indicates that there is a aux storage shortage and that I/O complete should free the current slot if all conditions are met never changes |
| 336 | (150) | DBL WORD | 8 | RCEPRTDW (0) | Structure name for PRA header |
| 336 | (150) | SIGNED | 4 | RCEPRTBL | Beginning of PRA |
| 340 | (154) | SIGNED | 4 | RCEPRCUR | Pointer to available slot in PRA |
| 344 | (158) | SIGNED | 4 | RCEKRE | Reserved -- do not use |

RCE Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|------------|---|
| Dec | Hex | | | | |
| 348 | (15C) | SIGNED | 2 | RCEFIXB1 | COUNT OF THE TIMES FRAMES WERE FIXED BELOW WHEN THEY COULD HAVE BEEN FIXED ABOVE AND RCEFIXAB WAS OFF |
| 350 | (15E) | SIGNED | 2 | RCEFIXB2 | COUNT OF THE TIMES FRAMES WERE FIXED BELOW WHEN THEY COULD HAVE BEEN FIXED ABOVE AND RCEFIXAB WAS ON |
| 352 | (160) | DBL WORD | 8 | RCESTLTI | STEAL TIMER - ELAPSED TIME SPENT IN PREF STEAL IN CPU TIMER UNITS |
| 360 | (168) | SIGNED | 4 | RCETOTSG | Total number of shared page groups in the system including shared segments |
| 364 | (16C) | SIGNED | 4 | RCESGINR | Total number groups in central storage including shared segment pages |
| 368 | (170) | SIGNED | 4 | RCESGINE | Total number of shared page groups in expanded storage including shared segment pages (ESA Mode Only, Not used for ESAME) |
| 372 | (174) | SIGNED | 4 | RCESGAUX | Total number of auxiliary slots in use for shared page groups |
| 376 | (178) | SIGNED | 4 | RCETOTSF | Total number of shared page groups fixed in the system including shared segments pages |
| 380 | (17C) | SIGNED | 4 | RCEBELSF | Total number of shared page groups fixed in the system below 16 meg real including shared segments pages |
| 384 | (180) | SIGNED | 4 | RCESPQUO | Storage isolation quota for central and expanded storage in use for shared page groups |
| 388 | (184) | SIGNED | 4 | RCESPGPI | Number of page-ins from auxiliary storage for shared page groups including shared segments pages |
| 392 | (188) | SIGNED | 4 | RCESPGPO | Number of page-outs to auxiliary storage for shared page groups including shared segments pages |
| 396 | (18C) | SIGNED | 4 | RCEESSPI | Number of page-ins from expanded storage for shared page groups including shared segments pages (ESA Mode Only, Not used for ESAME) |
| 400 | (190) | SIGNED | 4 | RCEESSPO | Number of page-outs to expanded storage for shared page groups including shared segments pages (ESA Mode Only, Not used for ESAME) |
| 404 | (194) | CHARACTER | 16 | RCEFBV (0) | STRUCTURE NAME FOR RCEFBV# FIELDS |
| Comment | | | | | |

THIS AND THE FOLLOWING 4 FIELDS ARE APPLICABLE TO PAGEABLE SHARED FRAMES

| | | | | | |
|----------------|-------|--------|---|----------|--|
| End of Comment | | | | | |
| 404 | (194) | SIGNED | 4 | RCEFBV1 | NUMBER OF FRAMES IN UIC INTERVAL 1 AS SET BY SRM VIA THE RCEFRV# FIELDS. |
| 408 | (198) | SIGNED | 4 | RCEFBV2 | NUMBER OF FRAMES IN UIC INTERVAL 2 AS SET BY SRM VIA THE RCEFRV# FIELDS. |
| 412 | (19C) | SIGNED | 4 | RCEFBV3 | NUMBER OF FRAMES IN UIC INTERVAL 3 AS SET BY SRM VIA THE RCEFRV# FIELDS. |
| 416 | (1A0) | SIGNED | 4 | RCEFBV4 | NUMBER OF FRAMES IN UIC INTERVAL 4 AS SET BY SRM VIA THE RCEFRV# FIELDS. |
| 420 | (1A4) | SIGNED | 4 | RCETOTSM | Total number of shared pages that are in shared segments |
| 424 | (1A8) | SIGNED | 4 | RCEPAAFC | Available above the line preferred frame count |
| 428 | (1AC) | SIGNED | 4 | RCEPFCOK | Preferred frame shortage threshold |
| 432 | (1B0) | SIGNED | 4 | RCEVIOMR | NUMBER OF VIO DATA SET PAGES MOVED TO THE VIO REAL CACHE |
| 436 | (1B4) | SIGNED | 4 | RCEVIORR | NUMBER OF VIO DATA SET PAGES READ FROM THE VIO REAL CACHE |
| 440 | (1B8) | SIGNED | 4 | RCECSARE | NUMBER OF CSA PAGES BACKED IN REAL STORAGE |
| 444 | (1BC) | SIGNED | 4 | RCELPARE | NUMBER OF PLPA/MLPA PAGES BACKED IN REAL STORAGE |
| 448 | (1C0) | SIGNED | 4 | RCELPAFX | NUMBER OF PLPA/MLPA PAGES THAT ARE PAGE FIXED |
| 452 | (1C4) | SIGNED | 4 | RCESQAFX | NUMBER OF SQA/FIXED-CSA PAGES IN REAL STORAGE |
| 456 | (1C8) | SIGNED | 4 | RCEDREFR | NUMBER OF SQA DREF PAGES IN REAL STORAGE |
| 460 | (1CC) | SIGNED | 4 | RCEPHAFC | Number of available preferred HIGH frames (above 2GB) |
| 464 | (1D0) | SIGNED | 4 | RCEQDAFC | Number of available quad frame groups |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-------|------------|-----|-------------|---|
| Dec | Hex | | | | |
| 468 | (1D4) | SIGNED | 1 | RCEQFAIL | Number of consecutive calls to Quad Frame Steal IARYGFRM that failed to obtain a group |
| 469 | (1D5) | SIGNED | 1 | RCEDEFQF | Default number of Quad Frame groups to be obtained by Quad Frame steal |
| 470 | (1D6) | CHARACTER | 2 | RCERSV2 | Reserved |
| 472 | (1D8) | SIGNED | 4 | RCENBAFC | TOTAL NUMBER OF FRAMES CURRENTLY ON THE NONPREFERRED BELOW AVAILABLE FRAME QUEUE. |
| 476 | (1DC) | SIGNED | 4 | RCENAAFC | Available nonpreferred above frame count |
| 480 | (1E0) | SIGNED | 4 | RCENHAFC | Number of available nonpreferred HIGH frames (above 2GB) |
| 484 | (1E4) | SIGNED | 4 | RCEQSAFC | Number of available quad single frames |
| 488 | (1E8) | SIGNED | 4 | RCEABVFX | Number of pages fixed between 16M and 2G |
| 492 | (1EC) | SIGNED | 4 | RCEQDFRM | Number of quad groups that are in-use by the system |
| 496 | (1F0) | SIGNED | 4 | RCEQDTHR | Threshold number of quad frames available needed in order to satisfy non-pref requests from the quad area |
| 500 | (1F4) | SIGNED | 4 | RCEABVPL | Same as RCEPOOL, but only includes frames between 16M and 2G |
| 504 | (1F8) | SIGNED | 4 | RCESTECB | ECB posted by IARM8MSI, waited on by reconfiguration (IEECB927) |
| 508 | (1FC) | SIGNED | 4 | RCEHSPRW | TOTAL NUMBER OF HIPERSPACE PAGES WRITTEN TO REAL STORAGE |
| 512 | (200) | SIGNED | 4 | RCEHSPRR | TOTAL NUMBER OF HIPERSPACE PAGES READ FROM REAL STORAGE |
| 516 | (204) | SIGNED | 4 | RCEPFTAL | Alet for the PFT CADS - 0 for ESA |
| 520 | (208) | CHARACTER | 8 | RCEQDSZ | Initial Quad Area Size |
| 528 | (210) | SIGNED | 4 | RCEPRMCT | Count of the number of non-nucleus frames comprising permanent storage |
| 532 | (214) | CHARACTER | 12 | RCERSV3 | Reserved (for HBB7703 and earlier) |
| 544 | (220) | DBL WORD | 8 | RCELVLPRIM | Largest Virtual address of low private (system default is 2**42) |
| 552 | (228) | DBL WORD | 8 | RCELVSHRLIM | Largest virtual address of shared storage (system default is 2**50) |
| 560 | (230) | SIGNED | 4 | RCEMINHVFRM | Min number of PFTEs on High Virtual frame section |
| 564 | (234) | SIGNED | 4 | RCEMAXHVFRM | Max number of PFTEs on High Virtual frame section |
| 568 | (238) | CHARACTER | 16 | RCERSV1 | Reserved (for HBB7705) |
| 584 | (248) | DBL WORD | 8 | RCEEND (0) | End of RCE (keep multiple of 8 bytes) |
| 584 | (248) | X'248' | 0 | RCELEN | "RCEEND-RCE" Length of the RCE |

RCE Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| RCE | 0 | | RCECSARE | 1B8 | |
| RCEABVFX | 1E8 | | RCEDBFRM | E4 | |
| RCEABVPL | 1F4 | | RCEDEFFX | 10 | |
| RCEAEC | 94 | | RCEDEFQF | 1D5 | |
| RCEAECLO | 98 | | RCEDFC | 8C | |
| RCEAECOK | 9C | | RCEDFRS | 24 | |
| RCEAFC | 88 | | RCEDREFR | 1C8 | |
| RCEAFCLO | 18 | | RCEDRIPS | DC | |
| RCEAFCOK | 1C | | RCEDRIRS | E8 | |
| RCEBELFX | 7C | | RCEEND | 248 | |
| RCEBELPL | 8 | | RCEESINU | A4 | |
| RCEBELSF | 17C | | RCEESPI | 144 | |
| RCEBLPIA | 138 | | RCEESPL | A0 | |
| RCEBLPIE | 134 | | RCEESREA | AC | |
| RCEBLSTA | 140 | | RCEESSPI | 18C | |
| RCEBLSTE | 13C | | RCEESSPO | 190 | |
| RCEBPPIA | 128 | | RCEESST | 148 | |
| RCEBPPIE | 124 | | RCEESTB1 | 69 | |
| RCEBPSTA | 130 | | RCEESTB2 | 6A | |
| RCEBPSTE | 12C | | RCEESTB3 | 6B | |
| RCECOMBI | B4 | | RCEESTTS | 68 | |
| RCECOMPI | 48 | | RCEESWRT | A8 | |
| RCECOMPO | 5C | | RCEFAUXS | 14C | 4 |
| RCECOMRC | 38 | | RCEFBV | 194 | |

RCE Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|-------------|------------|-----------|----------|------------|-----------|
| RCEFBV1 | 194 | | RCEQSAFC | 1E4 | |
| RCEFBV2 | 198 | | RCERAX | 80 | |
| RCEFBV3 | 19C | | RCERCFEX | 14C | A |
| RCEFBV4 | 1A0 | | RCERET | F0 | |
| RCEFIXAB | 14C | 50 | RCERPBEY | 14 | |
| RCEFIXB1 | 15C | | RCERSQA | 20 | |
| RCEFIXB2 | 15E | | RCERSV1 | 238 | |
| RCEFLAGS | 14C | | RCERSV2 | 1D6 | |
| RCEFRQC | E0 | | RCERSV3 | 214 | |
| RCEFRQM | BC | | RCESGAUX | 174 | |
| RCEFRV1 | 11C | | RCESGINE | 170 | |
| RCEFRV2 | 11E | | RCESGINR | 16C | |
| RCEFRV3 | 120 | | RCESPFR | 2C | |
| RCEFRV4 | 122 | | RCESPGPI | 184 | |
| RCEFXSTL | 118 | | RCESPGPO | 188 | |
| RCEGROUP | B0 | | RCESPQUO | 180 | |
| RCEHSPER | 108 | | RCESQAFX | 1C4 | |
| RCEHSPER | 104 | | RCESSINH | 14C | 28 |
| RCEHSPEW | 100 | | RCESTABL | 114 | |
| RCEHSPPI | 110 | | RCESTECB | 1F8 | |
| RCEHSPPO | 10C | | RCESTLTI | 160 | |
| RCEHSPRR | 200 | | RCESWPPI | 50 | |
| RCEHSPRW | 1FC | | RCESWPPO | 60 | |
| RCEID | 0 | | RCETOTFX | 78 | |
| RCEKRE | 158 | | RCETOTPI | 44 | |
| RCELEN | 248 | 248 | RCETOTPO | 58 | |
| RCELPABI | D8 | | RCETOTRC | 34 | |
| RCELPAFX | 1C0 | | RCETOTSF | 178 | |
| RCELPAPI | 4C | | RCETOTSG | 168 | |
| RCELPARC | 3C | | RCETOTSM | 1A4 | |
| RCELPARE | 1BC | | RCEVIOME | 6C | |
| RCELSIRS | EC | | RCEVIOMG | 74 | |
| RCELVLPRLIM | 220 | | RCEVIOMR | 1B0 | |
| RCELVSHRLIM | 228 | | RCEVIOPI | 54 | |
| RCEMAXFX | C | | RCEVIOPO | 64 | |
| RCEMAXHVFRM | 234 | | RCEVIORE | 70 | |
| RCEMIGAI | F4 | | RCEVIORR | 1B4 | |
| RCEMINHVFRM | 230 | | RCEVIORU | 30 | |
| RCEMVBEL | B8 | | RCEWLM | 68 | |
| RCENAAFC | 1DC | | RCEWRAPS | C0 | |
| RCENBAFC | 1D8 | | RCEWSACT | F8 | |
| RCENHAFC | 1E0 | | RCEWSAM | FC | |
| RCENORCF | 14C | 14 | RCEWSDNE | D4 | |
| RCENWSF | CC | | RCEWSPRP | D0 | |
| RCENWSP | C4 | | | | |
| RCENWSS | C8 | | | | |
| RCEPAAFC | 1A8 | | | | |
| RCEPAGMV | 90 | | | | |
| RCEPBAFC | 84 | | | | |
| RCEPBAFL | 40 | | | | |
| RCEPFCOK | 1AC | | | | |
| RCEPFTAL | 204 | | | | |
| RCEPHAFC | 1CC | | | | |
| RCEPIOOK | 14C | 8 | | | |
| RCEPOOL | 4 | | | | |
| RCEPRCUR | 154 | | | | |
| RCEPRKPR | 28 | | | | |
| RCEPRMCT | 210 | | | | |
| RCEPRTBL | 150 | | | | |
| RCEPRTDW | 150 | | | | |
| RCEQDAFC | 1D0 | | | | |
| RCEQDFRM | 1EC | | | | |
| RCEQDSZ | 208 | | | | |
| RCEQDTHR | 1F0 | | | | |
| RCEQFAIL | 1D4 | | | | |

RCT Heading Information

Common Name: System Resource Manager Resource Control Table
Macro ID: IRARCT
DSECT Name: RCT (unless DSECT=NO is coded)
Owning Component: System Resource Manager (SC1CX)
Eye-Catcher ID: RCT
 Offset: 0
 Length: CHAR(4)
Storage Attributes: Subpool: Nucleus
 Key: 0
 Residency: Nucleus (above 16M line)
Size: 216 bytes
Created by: Assembled into nucleus module IRARMCNS
Pointed to by: RMCTRCT field of the RMCT data area
Serialization: SRM lock
Function: Contains constants and statistics used by the system resource manager's resource monitor routine

RCT Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|----------------------------|------|------------|-----|------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 216 | RCT | RESOURCE CONTROL TABLE |
| 0 | (0) | CHARACTER | 4 | RCTRCT | ACRONYM IN EBCDIC -RCT- |
| Comment | | | | | |
| RESOURCE CONTROL CONSTANTS | | | | | |
| End of Comment | | | | | |
| 4 | (4) | SIGNED | 2 | RCCUICTL | UIC THRESHOLD LOW |
| 6 | (6) | SIGNED | 2 | RCCUICTH | UIC HIGH THRESHOLD |
| 8 | (8) | SIGNED | 2 | RCCCPUTL | CPU LOW THRESHOLD SCALED BY 16 |
| 10 | (A) | SIGNED | 2 | RCCCPUTH | CPU HIGH THRESHOLD SCALED BY 16 |
| 12 | (C) | SIGNED | 2 | RCCPTRTL | PAGING RATE LOW THRESHOLD |
| 14 | (E) | SIGNED | 2 | RCCPTRTH | PAGING RATE HIGH THRESHOLD |
| 16 | (10) | SIGNED | 2 | RCCSRSF | SWAP RATE SCALING FACTOR SCALED BY 100 |
| 18 | (12) | SIGNED | 2 | RCCILEV | In Long enough recommendation value threshold for select and swapout action to occur |
| 20 | (14) | UNSIGNED | 2 | RCCOV BMP | Percentage used to determine whether overblocking is occurring (percentage of unneeded frames brought in from aux and expanded as part of a block) |
| 22 | (16) | UNSIGNED | 2 | RCVDASAV | RM2 interval average number of address spaces delayed for CPU, scaled by 16 |
| 24 | (18) | UNSIGNED | 4 | RCVDASAC | Accumulated samples of CcvDasCt for current RM2 interval |
| 28 | (1C) | UNSIGNED | 4 | RCTIMGWU | Workload Units available to MVS image when not running as VM guest. If running as VM guest, capacity available to VM. Only calculated on machines that support the STSI instruction. |
| 32 | (20) | UNSIGNED | 4 | RCTCECWU | Workload Units capacity of CEC. Only calculated on machines that support the STSI instruction. |
| 36 | (24) | SIGNED | 2 | RCCRUAM | MULTIPLIER FOR OLD READY USER AVG |
| 38 | (26) | SIGNED | 2 | RCCRUCM | MULTIPLIER FOR ACCUM READY USER AVG |
| 40 | (28) | SIGNED | 2 | RCCWSRM | MULTIPLIER FOR OLD WEIGHTED SVCE RATE |
| 42 | (2A) | SIGNED | 2 | RCCSRCM | MULTIPLIER FOR ACCUMULATED SERVICE RATE |
| 44 | (2C) | SIGNED | 2 | RCCDCITL | CONTENTION INDEX THRESHOLD FOR EXCHANGE |
| 46 | (2E) | SIGNED | 2 | RCCETOLD | MULT FOR OLD E.T. AVG |
| 48 | (30) | SIGNED | 2 | RCCETCUR | MULT FOR NEW E.T. AVG |
| 50 | (32) | SIGNED | 2 | RCCRSVF3 | RESERVED |

RCT Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|----------------------------|------|------------|-----|------------|--|
| Dec | Hex | | | | |
| Comment | | | | | |
| RESOURCE CONTROL VARIABLES | | | | | |
| End of Comment | | | | | |
| 52 | (34) | SIGNED | 2 | RCVCTMC | SAMPLE INTERVALS COUNT |
| 54 | (36) | SIGNED | 2 | RCVUICA | UIC AVERAGE |
| 56 | (38) | SIGNED | 2 | RCVCPUA | CPU USAGE AVERAGE |
| 58 | (3A) | SIGNED | 2 | RCVAVQC | AVQ LOW COUNT |
| 60 | (3C) | SIGNED | 2 | RCVAFQA | AVAILABLE FRAME AVG |
| 62 | (3E) | SIGNED | 2 | RCVPINSC | policy interval sample count, wlm mode only |
| 64 | (40) | SIGNED | 2 | RCVPTR | PAGING RATE |
| 66 | (42) | SIGNED | 2 | RCVSWRT | Swapin rate |
| 68 | (44) | SIGNED | 2 | RCVPAGRT | TOTAL PAGING RATE |
| 70 | (46) | SIGNED | 2 | RCVRSVF3 | RESERVED |
| 72 | (48) | SIGNED | 4 | RCVUICC | UIC ACCUMULATOR |
| 76 | (4C) | SIGNED | 4 | RCVCPUC | CPU USAGE ACCUMULATOR |
| 80 | (50) | SIGNED | 4 | RCVAVQP | AVQ LOW COUNT SAVE AREA |
| 84 | (54) | SIGNED | 4 | RCVAFQC | AVAIL FRAME CUMULATOR |
| 88 | (58) | UNSIGNED | 4 | RCVBSWCT | Base Swap Count value for the accumulated number of pages swapped in/out from auxiliary/ expanded. |
| 92 | (5C) | SIGNED | 4 | RCVBPTCT | BASE PAGE FAULT COUNT |
| 96 | (60) | UNSIGNED | 4 | RCVBPUCT | Base Paging and Moving count for accumulated number of pages paged/moved to and from aux/ expanded. |
| 100 | (64) | SIGNED | 4 | RCVBPPCT | BASE TOTAL PAGE COUNT |
| 104 | (68) | SIGNED | 4 | RCVBPTTM | BASE PAGE FAULT TIME |
| 108 | (6C) | UNSIGNED | 4 | RCVMINDF | Minimum amount by which the ASM count of I/O requests received exceeds those completed in the last sample period. It is assumed to represent "lost" requests |
| 112 | (70) | SIGNED | 4 | RCVTAPAD | LAST ALLOCATED TAPE |
| 116 | (74) | SIGNED | 2 | RCVGMTRM | GLOBAL COUNT OF TERMWAITS DETECTED BY MS6 |
| 118 | (76) | SIGNED | 2 | RCVRSVF2 | RESERVED |
| Comment | | | | | |
| EXTENDED REAL CONSTANTS | | | | | |
| End of Comment | | | | | |
| 120 | (78) | SIGNED | 2 | RCCFX TTL | % All of real low MPL threshold |
| 122 | (7A) | SIGNED | 2 | RCCFX TTH | % All of real high MPL threshold |
| 124 | (7C) | SIGNED | 2 | RCCFX ETL | % Below the line low MPL threshold |
| 126 | (7E) | SIGNED | 2 | RCCFX ETH | % Below the line high MPL threshold |
| Comment | | | | | |
| EXTENDED REAL VARIABLES | | | | | |
| End of Comment | | | | | |
| 128 | (80) | SIGNED | 2 | RCVFXIOP | AVG % OF TOTAL FRAMES THAT ARE FIXED OR IN I/O |
| 130 | (82) | SIGNED | 2 | RCVMFXA | AVG % OF TOTAL FRAMES BELOW 16MEG THAT ARE FIXED |
| 132 | (84) | SIGNED | 4 | RCVFXCA | BELOW 16M FIXED FRAME COUNT AVERAGE |
| 136 | (88) | SIGNED | 4 | RCVFXCC | BELOW 16M FIXED FRAME COUNT ACCUMULATOR |
| 140 | (8C) | SIGNED | 4 | RCVBSWIC | Base swap count value for the accumulated number of pages swapped in from auxiliary |
| 144 | (90) | SIGNED | 4 | RCVASMQN | NONSWAP ASM QUEUE ACCUMULATOR |
| 148 | (94) | SIGNED | 2 | RCVNSQLA | NONSWAP ASM QUEUE LENGTH AVE |
| 150 | (96) | SIGNED | 2 | RCVSWPTM | SWAP PAGE DELAY TIME (MILLISECS) |
| 152 | (98) | SIGNED | 4 | RCVASMQS | SWAP ASM QUEUE ACCUMULATOR |
| 156 | (9C) | UNSIGNED | 4 | RCVSWRQC | BASE SWAP PAGE COMPLETE COUNT |
| 160 | (A0) | SIGNED | 4 | RCVTFXCA | TOTAL FIXED FRAME COUNT AVERAGE |
| 164 | (A4) | SIGNED | 4 | RCVTFXCC | TOTAL FIXED FRAME COUNT ACCUMULATOR |
| 168 | (A8) | SIGNED | 4 | RCVMDFP | MAX # OF DOUBLE FRAME PAIRS USED |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|--|
| Dec | Hex | | | | |
| 172 | (AC) | SIGNED | 4 | RCCRM2OR | VALUE OF THE RM2 INVOCATION INTERVAL CALCULATED USING CPU ADJUSTMENT FACTOR (BEFORE LIMITS APPLIED) |
| 176 | (B0) | SIGNED | 4 | RCCMS6OR | VALUE OF THE MS6 INVOCATION INTERVAL CALCULATED USING CPU ADJUSTMENT FACTOR (BEFORE LIMITS APPLIED) |
| 180 | (B4) | SIGNED | 4 | RCCWM2OR | VALUE OF THE WM2 EVALUATION THRESHOLD CALCULATED USING CPU ADJUSTMENT FACTOR (BEFORE LIMITS APPLIED) |
| 184 | (B8) | UNSIGNED | 4 | RCVSRBS | Accumulated Workload Management SRB Service for entire system. It is accumulated by WM1 and reset and used by RM3 |
| 188 | (BC) | UNSIGNED | 4 | RCVTCBS | Accumulated Workload Management TCB Service for entire system. It is accumulated by WM1 and reset and used by RM3 |
| 192 | (C0) | SIGNED | 4 | RCVCMPIB | Base for rcecomp (policy interval) |
| 196 | (C4) | UNSIGNED | 4 | RCTLACS | Long-term average CPU service used by this logical partition, in millions of service units per hour. If this value is above the partition's defined capacity, the partition will be capped. It is calculated using the physical CPU adjustment factor (RCTPCPUA) so it may not match other measures of service which are based on the logical CPU adjustment factor. It is not calculated if the partition does not have a defined capacity. |
| 200 | (C8) | SIGNED | 4 | RCTRSV3 | Reserved |
| 204 | (CC) | SIGNED | 4 | RCTRSV4 | Reserved |
| 208 | (D0) | SIGNED | 4 | RCTRSV5 | Reserved |
| 212 | (D4) | SIGNED | 4 | RCTPCPUA | Physical CPU adjustment factor (i.e. adjustment factor for converting CPU time to equivalent service in basic-mode with all processors online). |
| 216 | (D8) | CHARACTER | 0 | RCTEND | END OF RCT End of this block |

RCT Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| RCCCPUTH | A | | RCTRSV3 | C8 | |
| RCCCPUTL | 8 | | RCTRSV4 | CC | |
| RCCDCITL | 2C | | RCTRSV5 | D0 | |
| RCCETCUR | 30 | | RCVAFQA | 3C | |
| RCCETOLD | 2E | | RCVAFQC | 54 | |
| RCCFXETH | 7E | | RCVASMQN | 90 | |
| RCCFXETL | 7C | | RCVASMQS | 98 | |
| RCCFXTTH | 7A | | RCVAVQC | 3A | |
| RCCFXTTL | 78 | | RCVAVQP | 50 | |
| RCCILEV | 12 | | RCVBPPCT | 64 | |
| RCCMS6OR | B0 | | RCVBPTCT | 5C | |
| RCCOVBMF | 14 | | RCVBPTTM | 68 | |
| RCCPTRTH | E | | RCVBPUCT | 60 | |
| RCCPTRTL | C | | RCVBSWCT | 58 | |
| RCCRM2OR | AC | | RCVBSWIC | 8C | |
| RCCRSVF3 | 32 | | RCVCMPIB | C0 | |
| RCCRUAM | 24 | | RCVCPUA | 38 | |
| RCCRUCM | 26 | | RCVCPUC | 4C | |
| RCCSRCM | 2A | | RCVCTMC | 34 | |
| RCCSRSF | 10 | | RCVDASAC | 18 | |
| RCCUICTH | 6 | | RCVDASAV | 16 | |
| RCCUICTL | 4 | | RCVFXCA | 84 | |
| RCCWM2OR | B4 | | RCVFXCC | 88 | |
| RCCWSRM | 28 | | RCVFXIOP | 80 | |
| RCT | 0 | | RCVGMTRM | 74 | |
| RCTCECWU | 20 | | RCVMDFP | A8 | |
| RCTEND | D8 | | RCVMFXA | 82 | |
| RCTIMGWU | 1C | | RCVMINDF | 6C | |
| RCTLACS | C4 | | RCVNSQLA | 94 | |
| RCTPCPUA | D4 | | RCVPAGRT | 44 | |
| RCTRCT | 0 | | RCVPINSC | 3E | |

RCT Cross Reference

| Name | Hex Offset | Hex Value |
|----------|---------------|--------------|
| RCVPTR | 40 | |
| RCVRSVF2 | 76 | |
| RCVRSVF3 | 46 | |
| RCVSRBS | B8 | |
| RCVSWPTM | 96 | |
| RCVSWRQC | 9C | |
| RCVSWRT | 42 | |
| RCVTAPAD | 70 | |
| RCVTCBS | BC | |
| RCVTFXCA | A0 | |
| RCVTFXCC | A4 | |
| RCVUICA | 36 | |
| RCVUICC | 48 | |

RCTD Heading Information

Common Name: Region Control Task Data Area
Macro ID: IEARCTD
DSECT Name: RCTD
Owning Component: Region Control Task (SC1CU)
Eye-Catcher ID: None
Storage Attributes: Virtual Storage: Yes
 Subpool: 255
 Key: 0
Size: 280 Bytes
Created by: IEAVEMINM
Pointed to by: ASXBRCTD field of the ASXB data area.
Serialization: None
Function: This area is used by RCT to store information relevant to its processing.

RCTD Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|---------------|---|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 280 | RCTD | RCT DATA AREA |
| 0 | (0) | CHARACTER | 0 | RCTDBEGN | BEGINING OF RCTD |
| 0 | (0) | UNSIGNED | 4 | RCTDISAV (18) | INTERNAL SAVE AREA |
| 72 | (48) | ADDRESS | 4 | RCTDTCBD | ADDRESS OF DUMP TCB |
| 76 | (4C) | ADDRESS | 4 | RCTDTCBS | ADDRESS OF STC TCB |
| 80 | (50) | CHARACTER | 72 | RCTDWORK | WORK AREA |
| 80 | (50) | CHARACTER | 72 | RCTDLMAC | LIST FORM MACROS |
| 80 | (50) | BITSTRING | 72 | RCTDCLRL | CLEAR WORK AREA |
| 80 | (50) | BITSTRING | 8 | RCTDTIME | CURRENT TIME |
| 80 | (50) | UNSIGNED | 4 | RCTDTMLH | LEFT HALF USED FOR CALCULATIONS |
| 84 | (54) | UNSIGNED | 4 | * | RESERVED |
| 88 | (58) | CHARACTER | 32 | RCTDPRG | PURGE PARAMETER LIST |
| 152 | (98) | BITSTRING | 2 | RCTDFLG1 | FLAGS |
| | | 1... | | RCTDCLAS | ENHANCED CLIST ATTENTION EXIT SUPPORT |
| 152 | (98) | BITSTRING | 1 | * | RESERVED |
| 154 | (9A) | UNSIGNED | 2 | RCTDCLST | COUNT OF CLIST ATTN STMT'S WITHIN NESTED CLISTS |
| 156 | (9C) | CHARACTER | 8 | RCTDECBS | ECB LIST |
| 156 | (9C) | ADDRESS | 4 | RCTDTPTR | POINTER TO RCTDTECB |
| 160 | (A0) | ADDRESS | 4 | RCTDWPTR | POINTER TO ASCBECB |
| | | 1... | | RCTDECBE | LAST ECB INDICATOR END OF ECB LIST |
| 164 | (A4) | ADDRESS | 4 | RCTDTECB | RCT TERMINATION ECB |
| | | 1... | | * | UNUSED |
| | | .1... | | RCTDPOST | TERMINATION ECB'S POST BIT |
| 164 | (A4) | BITSTRING | 3 | * | UNUSED |
| 168 | (A8) | ADDRESS | 4 | RCTDRET@ | AREA FOR SAVING INIT/TERM CALLER'S RETURN ADDRESS |
| 172 | (AC) | ADDRESS | 4 | RCTDTAXE | ADDRESS OF TAXE QUEUE |
| 176 | (B0) | ADDRESS | 4 | RCTDPIRL | ADDRESS OF PURGE I/O REQ |
| 176 | (B0) | CHARACTER | 1 | * | RESERVED |
| 177 | (B1) | ADDRESS | 3 | RCTDBASE | ANCHOR FOR PURGE I/O REQUESTS |
| 180 | (B4) | ADDRESS | 4 | RCTDRC | SAVE AREA FOR INVALID RETURN CODES |
| 184 | (B8) | ADDRESS | 4 | RCTDRTRY | RECURSION INDICATOR |
| 188 | (BC) | ADDRESS | 4 | RCTDRTY@ | POTENTIAL RETRY ADDRESS |
| 192 | (C0) | SIGNED | 4 | RCTDQSRC | QSCECMP return code OR ASCBQECB post code |
| 196 | (C4) | SIGNED | 4 | RCTDQORC | Original QSCECMP return code |
| 200 | (C8) | CHARACTER | 16 | RCTDRES6 | RESERVED |

RCTD Map

| Offsets | | | | | |
|---------------------------------|-------|------------|-----|------------|---|
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| Comment | | | | | |
| RECOVERY FOOTPRINTS | | | | | |
| End of Comment | | | | | |
| 216 | (D8) | BITSTRING | 4 | RCTDRCTR | RECOVERY FOOTPRINTS |
| 216 | (D8) | BITSTRING | 1 | RCTDMOID | MODULE IDENTIFIER |
| | | 1... | | RCTDINIT | INITIALIZATION |
| | | .1.. | | RCTDCOMN | COMMON PROCESSING |
| | | ..1. | | RCTDQUIS | QUIESCE |
| | | ...1 | | RCTDREST | RESTORE |
| | | 1... | | RCTDATTN | ATTENTION EXIT |
| | |1.. | | RCTDTERM | TERMINATION |
| | |1. | | RCTDDUMP | DUMP REQUESTED BY RCT |
| | |1 | | * | RESERVED |
| 217 | (D9) | BITSTRING | 3 | RCTDFLGS | RECOVERY FLAGS |
| Comment | | | | | |
| WHEN RCTDINIT MODULE FLAG IS ON | | | | | |
| End of Comment | | | | | |
| | | 1... | | RCTDATTD | DUMP TASK BEING ATTACHED |
| | | .1.. | | RCTDRES3 | RESERVED FOR FUTURE USE |
| | | ..1. | | RCTDATT5 | STC BEING ATTACHED |
| | | ...1 | | RCTDBRCP | BRANCHING TO COMMON PROC |
| 217 | (D9) | BITSTRING | 2 | * | RESERVED |
| Comment | | | | | |
| RCT INTERNAL ACTION FLAGS | | | | | |
| End of Comment | | | | | |
| 220 | (DC) | BITSTRING | 4 | RCTDINTF | RCT INTERNAL ACTION FLAGS |
| 220 | (DC) | BITSTRING | 1 | RCTDRCTF | RCT'S CROSS COMMUNICATIONS RECOVERY FLAGS |
| | | 1... | | RCTDRSBO | QUIESCE BACKOUT INVOKED |
| | | .1.. | | RCTDSUBN | RCT'S SUBTASKS STOPPED |
| | | ..1. | | RCTDPRGR | RCT OWNS PURGE RESOURCE |
| | | ...1 | | RCTDSRBN | SRB'S STOPPED |
| | | 1... | | RCTDDLCK | QUIESCE HAS DISPATCHER LOCK |
| | |111 | | * | RESERVED |
| 221 | (DD) | BITSTRING | 3 | RCTDRES5 | RESERVED |
| 224 | (E0) | CHARACTER | 12 | RCTDRES1 | RESERVED WAS CHAR(16) |
| 236 | (EC) | ADDRESS | 4 | RCTDPLST | ADDRESS OF PROTECTED |
| Comment | | | | | |
| PLIST | | | | | |
| End of Comment | | | | | |
| 240 | (F0) | CHARACTER | 40 | RCTDSLST | AREA TO CONTAIN LIST FORM OF SDUMP MACRO |
| 240 | (F0) | BITSTRING | 40 | RCTDSCLR | CLEAR LIST AREA |
| 280 | (118) | CHARACTER | 0 | RCTDEND | END OF RCTD |
| Offsets | | | | | |
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 217 | (D9) | STRUCTURE | 3 | * | |
| | | 1... | | RCTDWAIT | PREPARING TO ISSUE WAIT |
| | | .1.. | | RCTDLOOP | LOOKING FOR WORK REQUESTS |
| | | ..1. | | RCTDBR2T | BRANCHING TO TERMINATION |
| | | ...1 | | RCTDBR2Q | BRANCHING TO QUIESCE |

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|----------------|------|------------|-----|------------|---|
| Dec | Hex | | | | |
| 217 | (D9) | 1... | 2 | RCTDBR2R | BRANCHING TO RESTORE |
| | |1.. | | RCTDBR2A | BRANCHING TO ATTENTION EXIT |
| | | BITSTRING | | * | RESERVED |
| Offsets | | | | | |
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 217 | (D9) | STRUCTURE | 3 | * | |
| | | 1... | | RCTDRES4 | RESERVED FOR FUTURE USE |
| | | .1.. | | RCTDDETS | STC BEING DETACHED |
| | | ..1. | | RCTDDETD | DUMP BEING DETACHED |
| 217 | (D9) | ...1 | 2 | RCTDCANE | CANCEL ESTAE |
| | | BITSTRING | | * | RESERVED |
| | | Offsets | | | |
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 217 | (D9) | STRUCTURE | 3 | * | |
| | | 1... | | RCTDAFPE | ATTENTION SCHEDULING BEGUN |
| | | .1.. | | RCTDAFPC | ATTENTION SCHEDULING ENDED |
| | | ..1. | | RCTDPMSG | THE ATTENTION ERROR MESSAGE SHOULD BE ISSUED |
| 217 | (D9) | ...1 | 2 | RCTDIGAT | IGNORE ATTENTION |
| | | BITSTRING | | * | RESERVED |
| | | Offsets | | | |
| Dec | Hex | Type/Value | Len | Name (Dim) | Description |
| 217 | (D9) | STRUCTURE | 3 | * | |
| Comment | | | | | |
| BYTE 1 | | | | | |
| End of Comment | | | | | |
| | | 1... | | RCTDENQ | ENQ INVOKED |
| | | .1.. | | RCTDOLL1 | SETLOCK OBTAIN INVOKED THE 1ST TIME FOR LOCAL LOCK |
| | | ..1. | | RCTDRLL1 | SETLOCK RELEASE INVOKED THE 1ST TIME FOR LOCAL LOCK |
| | | ...1 | | RCTDPSUB | STATUS INVOKED TO STOP SUBTASKS |
| | | 1... | | RCTDSY12 | SYSEVENT 12 INVOKED |
| | |1.. | | RCTDSV16 | SVC 16 INVOKED |
| | |1. | | RCTDDEQ | DEQ INVOKED |
| | |1 | | RCTDPSRB | STATUS INVOKED TO STOP SRBS |
| Comment | | | | | |
| BYTE 2 | | | | | |
| End of Comment | | | | | |
| 218 | (DA) | 1... | | RCTDSY13 | SYSEVENT 13 INVOKED |
| | | .1.. | | RCTDSSUB | STATUS INVOKED TO START SUBTASKS |
| | | ..1. | | RCTDSSRB | STATUS INVOKED TO START SRB |
| | | ...1 | | RCTDSWOT | SWAP-OUT INVOKED |
| | | 1... | | RCTDQWAI | WAIT INVOKED |
| | |1.. | | RCTDSLFL | SETLOCK FAILED |
| | |1. | | RCTDPRGF | PURGE FAILED |
| | |1 | | RCTDSYBC | SRM PROCESSING COMPLETE FOR BRANCH ENTRY |

RCTD Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|-----|------------|-----|------------|-------------|
| Dec | Hex | | | | |
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| Offsets | | Type/Value | Len | Name (Dim) | Description |
|----------------|------|------------|-----|------------|--|
| Dec | Hex | | | | |
| 217 | (D9) | STRUCTURE | 3 | * | |
| Comment | | | | | |
| BYTE 1 | | | | | |
| End of Comment | | | | | |
| | | 1... | | RCTDRS17 | SVC 17 BEING INVOKED |
| | | .1.. | | RCTDOBLK | SETLOCK OBTAIN INVOKED |
| | | ..1. | | RCTDSTAT | STATUS BEING INVOKED |
| | | ...1 | | RCTDRLLK | SETLOCK RELEASE INVOKED |
| | | 1... | | RCTDSY19 | SYSEVENT 19 INVOKED |
| | |1.. | | RCTDSY18 | SYSEVENT 18 INVOKED |
| | |1. | | RCTDFAIL | SETLOCK FAILED |
| | |1 | | RCTDRSLW | RESTORE FOUND ADDRESS SPACE IN LONG WAIT |
| Comment | | | | | |
| BYTE 2 | | | | | |
| End of Comment | | | | | |
| 218 | (DA) | 1... | | RCTDRIOC | I/O PROCESSING COMPLETE |
| | | .1.. | | RCTDWTLB | WAIT LIMIT PROCESSING BEGINNING |
| | | ..1. | | RCTDSTAC | STATUS PROCESSING COMPLETE |
| | | ...1 | | RCTDRLWC | LONG WAIT PROC COMPLETE |
| | | 1... | | RCTDRLWB | LONG WAIT PROC BEGINNING |
| | |111 | | * | RESERVED |
| Comment | | | | | |
| BYTE 3 | | | | | |
| End of Comment | | | | | |
| 219 | (DB) | 1... | | * | RESERVED |
| | | .1.. | | RCTDWTLC | WAIT LIMIT PROCESSING COMPLETE |
| | | ..1. | | RCTDOPTC | SRM PROC COMPLETE |
| | | ...1 1111 | | * | RESERVED |

RCTD Cross Reference

| Name | Hex Offset | Hex Value | Name | Hex Offset | Hex Value |
|----------|------------|-----------|----------|------------|-----------|
| RCTD | 0 | | RCTDRES5 | DD | |
| RCTDAFPC | D9 | 40 | RCTDRES6 | C8 | |
| RCTDAFPE | D9 | 80 | RCTDRET@ | A8 | |
| RCTDATTD | D9 | 80 | RCTDRGL1 | DB | 08 |
| RCTDATTN | D8 | 08 | RCTDRIOC | DA | 80 |
| RCTDATT5 | D9 | 20 | RCTDRLLK | D9 | 10 |
| RCTDBASE | B1 | | RCTDRLL1 | D9 | 20 |
| RCTDBEGN | 0 | | RCTDRLL2 | DB | 20 |
| RCTDBRCP | D9 | 10 | RCTDRLWB | DA | 08 |
| RCTDBR2A | D9 | 04 | RCTDRLWC | DA | 10 |
| RCTDBR2Q | D9 | 10 | RCTDRSBO | DC | 80 |
| RCTDBR2R | D9 | 08 | RCTDRSLW | D9 | 01 |
| RCTDBR2T | D9 | 20 | RCTDRS17 | D9 | 80 |
| RCTDCANE | D9 | 10 | RCTDRTRY | B8 | |
| RCTDCLAS | 98 | 80 | RCTDRTY@ | BC | |
| RCTDCLRL | 50 | | RCTDSCLR | F0 | |
| RCTDCLST | 9A | | RCTDSLFL | DA | 04 |
| RCTDCOMN | D8 | 40 | RCTDSLST | F0 | |
| RCTDDEQ | D9 | 02 | RCTDSRBN | DC | 10 |
| RCTDDETD | D9 | 20 | RCTDSSRB | DA | 20 |
| RCTDDETS | D9 | 40 | RCTDSSUB | DA | 40 |
| RCTDDLCK | DC | 08 | RCTDSTAC | DA | 20 |
| RCTDDUMP | D8 | 02 | RCTDSTAT | D9 | 20 |
| RCTDECBE | A0 | 80 | RCTDSUBN | DC | 40 |
| RCTDECBS | 9C | | RCTDSV16 | D9 | 04 |
| RCTDEND | 118 | | RCTDSWOT | DA | 10 |
| RCTDENQ | D9 | 80 | RCTDSWPC | DB | 01 |
| RCTDFAIL | D9 | 02 | RCTDSWPF | DB | 80 |
| RCTDFLGS | D9 | | RCTDSWPR | DB | 02 |
| RCTDFLG1 | 98 | | RCTDSYBC | DA | 01 |
| RCTDIGAT | D9 | 10 | RCTDSY12 | D9 | 08 |
| RCTDINIT | D8 | 80 | RCTDSY13 | DA | 80 |
| RCTDINTF | DC | | RCTDSY18 | D9 | 04 |
| RCTDISAV | 0 | | RCTDSY19 | D9 | 08 |
| RCTDLMAC | 50 | | RCTDTAXE | AC | |
| RCTDLOOP | D9 | 40 | RCTDTCBD | 48 | |
| RCTDMOID | D8 | | RCTDTCBS | 4C | |
| RCTDOBLK | D9 | 40 | RCTDTECB | A4 | |
| RCTDOGL1 | DB | 10 | RCTDTERM | D8 | 04 |
| RCTDOLL1 | D9 | 40 | RCTDTIME | 50 | |
| RCTDOLL2 | DB | 40 | RCTDTMLH | 50 | |
| RCTDOPTC | DB | 20 | RCTDTPTR | 9C | |
| RCTDPIRL | B0 | | RCTDWAIT | D9 | 80 |
| RCTDPLST | EC | | RCTDWORK | 50 | |
| RCTDPMSG | D9 | 20 | RCTDWPTR | A0 | |
| RCTDPOST | A4 | 40 | RCTDWTLB | DA | 40 |
| RCTDPRG | 58 | | RCTDWTLC | DB | 40 |
| RCTDPRGF | DA | 02 | | | |
| RCTDPRGR | DC | 20 | | | |
| RCTDPSRB | D9 | 01 | | | |
| RCTDPSUB | D9 | 10 | | | |
| RCTDQABD | DB | 04 | | | |
| RCTDQORC | C4 | | | | |
| RCTDQSRC | C0 | | | | |
| RCTDQUIS | D8 | 20 | | | |
| RCTDQWAI | DA | 08 | | | |
| RCTDRC | B4 | | | | |
| RCTDRCTF | DC | | | | |
| RCTDRCTR | D8 | | | | |
| RCTDREST | D8 | 10 | | | |
| RCTDRES1 | E0 | | | | |
| RCTDRES3 | D9 | 40 | | | |
| RCTDRES4 | D9 | 80 | | | |

RCWK Heading Information

Common Name: VSM Recovery Work Area
Macro ID: IGVRCWK
DSECT Name: RCWK
Owning Component: Virtual Storage Manager (SC1CH)
Subpool and Key: 239, 255 and key 0
Size: 40 bytes
Created by: IGVRVSM
Pointed to by: VSWKRCWK
Serialization: None
Function: This maps the recovery work area

RCWK Map

| Offsets | | Type/Value | Len | Name (Dim) | Description |
|---------|------|------------|-----|------------|--|
| Dec | Hex | | | | |
| 0 | (0) | STRUCTURE | 40 | RCWK | VSM RECOVERY WORK AREA |
| 0 | (0) | ADDRESS | 4 | RCWKADDR | ADDRESS OF AREA TO BE VERIFIED |
| 4 | (4) | CHARACTER | 1 | RCWKFLG1 | STORAGE FLAGS |
| | | 1... | | RCWKTYPE | 0 => STORAGE IS SQA 1 => STORAGE IS LSQA |
| | | .1.. | | RCWKCELL | 0 => CHECK CELLPOL 1 => DON'T CHECK CELLPOL |
| | | ..1. | | RCWKCERR | 0 => NO CELLPOL ERRORS 1 => CELLPOL ERRORS |
| | | ...1 | | RCWKRET | 0 => RETRY TO IGVVSMRT 1 => RETRY TO CALLER OF IGVVSMRT |
| | | 1... | | RCWKPERC | 1 => FORCE PERCOLATION 0 => PERCOLATION NOT FORCED |
| | |1.. | | RCWKABND | 1 => ABEND 704,705,70A,778 0 => NOT ONE OF THE ABOVE |
| | |1. | | RCWKBACK | 1 => DO BACKOUT PROCESSING 0 => DO NOT DO BACKOUT |
| | |1 | | * | RESERVED |
| 5 | (5) | CHARACTER | 1 | RCWKFLG2 | QUEUE FLAGS |
| | | 1... | | RCWKFOR | 1 => QUEUE IS CIRCULAR IN THE FORWARD DIRECTION |
| | | .1.. | | RCWKBAC | 1 => QUEUE IS CIRCULAR IN THE BACKWARDS DIRECTION |
| | | ..11 1111 | | * | RESERVED |
| 6 | (6) | CHARACTER | 1 | RCWKPFLG | VSWK PROCESSING FLAGS |
| | | 1... | | RCWKRFIX | 0 => DON'T RELEASE VSMFIX LOCK 1 => RELEASE VSMFIX LOCK |
| | | .1.. | | RCWKENT | 0 => BRANCH ENTRY 1 => SVC ENTRY |
| | | ..1. | | RCWKGLBL | 0 => NOT GLOBAL BRANCH ENTRY 1 => GLOBAL BRANCH ENTRY |
| | | ...1 | | RCWKRPAG | 1 => DON'T RELEASE VSMPAG LOCK 0 => RELEASE VSMPAG LOCK |
| | | 1... | | RCWKSTAT | 0 => CALLER IS IN SUPERVISOR STATE 1 => CALLER IS IN PROBLEM PROGRAM STATE |
| | |1.. | | RCWKLST | 0 => THIS IS NOT A LIST REQUEST 1 => THIS IS A LIST REQUEST |
| | |1. | | RCWKRCUR | 0 => THIS IS NOT A RECOVERY RECURSION 1 => THIS IS A RECOVERY RECURSION |
| | |1 | | RCWKFSP | 0 => THIS IS NOT SUBPOOL FREEMAIN 1 => THIS IS A SUBPOOL FREEMAIN |
| 7 | (7) | CHARACTER | 3 | RCWKABD | EBCDIC ABEND CODE |
| 10 | (A) | SIGNED | 2 | RCWKLENG | LENGTH OF AREA TO BE VERIFIED |
| 12 | (C) | ADDRESS | 4 | RCWKHEAD | ADDRESS OF THE QUEUE HEADER |
| 16 | (10) | ADDRESS | 4 | RCWKTRAL | ADDRESS OF THE QUEUE TRAILER |
| 20 | (14) | ADDRESS | 4 | RCWKMADR | ADDRESS OF ABENDING MODULE |
| 24 | (18) | CHARACTER | 8 | RCWKEPID | ENTRY POINT MODULE NAME |
| 32 | (20) | SIGNED | 2 | RCWKNEXT | OFFSET IN A QUEUE ELEMENT TO THE NEXT POINTER |
| 34 | (22) | SIGNED | 2 | RCWKPREV | OFFSET IN A QUEUE ELEMENT TO THE PREVIOUS POINTER |
| 36 | (24) | SIGNED | 4 | RCWKVRAP | ADDRESS OF THE NEXT AVAILABLE AREA IN THE VRA |

RCWK Constants

RCWK Constants

| Len | Type | Value | Name | Description |
|---|---------|-------|----------|--------------|
| 0 | BIT | 0 | RCWKSQA | TYPE IS SQA |
| 0 | BIT | 1 | RCWKLSQA | TYPE IS LSQA |
| Comment | | | | |
| RCVRSQA 200 - AREA IS NOT IN SQA OR SQA CELLPOL AS REQUESTED 4 BYTES-ADDRESS OF AREA REQUESTED 2 BYTES-LENGTH OF AREA | | | | |
| End of Comment | | | | |
| 1 | DECIMAL | 200 | RCVRSQA | |
| Comment | | | | |
| RCVRALSQ 201 - AREA IS NOT IN LSQA OR LSQA CELLPOL AS REQUESTED 4 BYTES-ADDRESS OF AREA REQUESTED 2 BYTES-LENGTH OF AREA | | | | |
| End of Comment | | | | |
| 1 | DECIMAL | 201 | RCVRALSQ | |
| Comment | | | | |
| RCVRAPOS 202 - SIZE OF AREA DESCRIBED BY A VSM CONTROL BLOCK IS ZERO OR GREATER THAN '7FFFFFFF'X 4 BYTES-CONTROL BLOCK ID 4 BYTES-ADDR OF BLOCK PREVIOUS TO BLOCK WITH ERROR 4 BYTES-ADDR OF BLOCK WITH ERROR | | | | |
| End of Comment | | | | |
| 1 | DECIMAL | 202 | RCVRAPOS | |
| Comment | | | | |
| RCVRASIZ 203 - SIZE OF AREA DESCRIBED BY A VSM CONTROL BLOCK IS NOT A PROPER MULTIPLE 4 BYTES-CONTROL BLOCK ID 4 BYTES-ADDR OF BLOCK PREVIOUS TO BLOCK WITH ERROR 4 BYTES-ADDR OF BLOCK WITH ERROR | | | | |
| End of Comment | | | | |
| 1 | DECIMAL | 203 | RCVRASIZ | |
| Comment | | | | |
| RCVRABDY 204 - AREA DESCRIBED BY A VSM CONTROL BLOCK IS NOT ON PROPER BOUNDARY 4 BYTES-CONTROL BLOCK ID 4 BYTES-ADDR OF BLOCK PREVIOUS TO BLOCK WITH ERROR 4 BYTES-ADDR OF BLOCK WITH ERROR | | | | |
| End of Comment | | | | |
| 1 | DECIMAL | 204 | RCVRABDY | |
| Comment | | | | |
| RCVRAID 206 - INVALID CONTROL BLOCK ID 4 BYTES-EXPECTED CONTROL BLOCK ID 4 BYTES-ADDR OF BLOCK WITH ERROR | | | | |
| End of Comment | | | | |
| 1 | DECIMAL | 206 | RCVRAID | |

| Len | Type | Value | Name | Description |
|--|---------|-------|----------|-------------|
| Comment | | | | |
| RCVRAFCL 207 - COUNT OF FREE CELLS IN CELLPOOL IS NOT CORRECT 4 BYTES-ADDRESS OF CELLPOOL ANCHORS (VSWKCELA) 4 BYTES-ACTUAL NUMBER OF CELLS COUNTED BY RECOVERY 4 BYTES-EXPECTED NUMBER OF CELLS (VSMPCNT) | | | | |
| End of Comment | | | | |
| 1 | DECIMAL | 207 | RCVRAFCL | |
| Comment | | | | |
| RCVRAADF 208 - DFE ON THE ADDRESS QUEUE IS NOT ON THE SIZE QUEUE. IF NO OTHER ERRORS ARE FOUND WITH THIS DFE THEN THE DFE IS ENQUEUED ON THE SIZE QUEUE. ELSE IT IS DEQUEUED FROM THE ADDRESS QUEUE. 4 BYTES-ADDR OF PREVIOUS DFE ON THE ADDRESS QUEUE 4 BYTES-ADDR OF PREVIOUS DFE ON THE SIZE QUEUE (THIS DATA MAY BE INVALID) 4 BYTES-ADDR OF DFE IN ERROR | | | | |
| End of Comment | | | | |
| 1 | DECIMAL | 208 | RCVRAADF | |
| Comment | | | | |
| RCVRASDF 209 - DFE ON THE SIZE QUEUE IS NOT ON THE ADDRESS QUEUE. IF NO OTHER ERRORS ARE FOUND WITH THIS DFE THEN THE DFE IS ENQUEUED ON THE ADDRESS QUEUE. ELSE IT IS DEQUEUED FROM THE SIZE QUEUE. 4 BYTES-ADDR OF PREVIOUS DFE ON THE ADDRESS QUEUE (THIS DATA MAY BE INVALID) 4 BYTES-ADDR OF PREVIOUS DFE ON THE SIZE QUEUE 4 BYTES-ADDR OF DFE IN ERROR | | | | |
| End of Comment | | | | |
| 1 | DECIMAL | 209 | RCVRASDF | |
| Comment | | | | |
| RCVRAORD 210 - SUBPOOL ID'S AND KEYS ARE NOT IN ORDER IN THE SPQE QUEUE 4 BYTES-CONTROL BLOCK ID 4 BYTES-ADDR OF PREVIOUS BLOCK PROCESSED ON QUEUE 4 BYTES-ADDR OF CURRENT BLOCK BEING PROCESSED | | | | |
| End of Comment | | | | |
| 1 | DECIMAL | 210 | RCVRAORD | |
| Comment | | | | |
| RCVRAWA4 211 - VSWK STACK POINTER IS NOT WITHIN THE STACK AREA 4 BYTES-ADDRESS OF VSWK | | | | |
| End of Comment | | | | |
| 1 | DECIMAL | 211 | RCVRAWA4 | |

RCWK Constants

| Len | Type | Value | Name | Description |
|--|------|-------|------|-------------|
| Comment | | | | |
| RCVRADBL 212 - DOUBLY TREADED ELEMENT OR ELEMENTS DEQUEUED | | | | |
| 4 BYTES-CASE NUMBER | | | | |
| 4 BYTES-ADDR1 | | | | |
| 4 BYTES-ADDR2 | | | | |
| FOR EACH CASE, ADDR1 AND ADDR2 ARE AS FOLLOWS: | | | | |
| CASE NUMBER = 1 A BACKWARD POINTER IS INCORRECT. | | | | |
| (IN PROCESS OF ENQUEUE) | | | | |
| ADDR1 = THE ADDRESS OF THE ELEMENT IN THE | | | | |
| FORWARD DIRECTION THAT DOES NOT HAVE | | | | |
| A VALID PREVIOUS POINTER. | | | | |
| ADDR2 = THE ADDRESS OF THE ELEMENT IN THE | | | | |
| BACKWARD DIRECTION THAT DOES NOT HAVE | | | | |
| A VALID NEXT POINTER. | | | | |
| CASE NUMBER = 2 A FORWARD POINTER IS INCORRECT | | | | |
| (IN PROCESS OF DEQUEUE) | | | | |
| ADDR1 = THE ADDRESS OF THE ELEMENT IN THE | | | | |
| FORWARD DIRECTION THAT DOES NOT HAVE | | | | |
| A VALID PREVIOUS POINTER. | | | | |
| ADDR2 = THE ADDRESS OF THE ELEMENT IN THE | | | | |
| BACKWARD DIRECTION THAT DOES NOT HAVE | | | | |
| A VALID NEXT POINTER. | | | | |
| CASE NUMBER = 3 UNEXPECTED ERROR DETECTED | | | | |
| ADDR1 = THE ADDRESS OF THE ELEMENT IN THE | | | | |
| FORWARD DIRECTION THAT DOES NOT HAVE | | | | |
| A VALID PREVIOUS POINTER. | | | | |
| ADDR2 = THE ADDRESS OF THE ELEMENT IN THE | | | | |
| BACKWARD DIRECTION THAT DOES NOT HAVE | | | | |
| A VALID NEXT POINTER. | | | | |
| CASE NUMBER = 4 AN INVALID PREVIOUS POINTER - NO ERROR | | | | |
| FOUND IN THE BACKWARD DIRECTION. QUEUE | | | | |
| NON-CIRCULAR IN BACKWARD DIRECTION | | | | |
| ADDR1 = THE ADDRESS OF THE ELEMENT IN THE | | | | |
| FORWARD DIRECTION THAT DOES NOT HAVE | | | | |
| A VALID PREVIOUS POINTER. | | | | |
| ADDR2 = THE ADDRESS OF THE ELEMENT THAT IS | | | | |
| THE BACKWARD TRAILER. | | | | |
| CASE NUMBER = 5 THE TRAILER APPEARS TO HAVE AN INVALID | | | | |
| PREVIOUS POINTER (EQUIVALENT TO CASE 2) | | | | |
| ADDR1 = THE ADDRESS OF THE LAST VALID ELEMENT | | | | |
| IN THE FORWARD DIRECTION | | | | |
| ADDR2 = THE ADDRESS OF THE BACKWARD TRAILER | | | | |
| CASE NUMBER = 6 THE TRAILER HAS AN INVALID PREVIOUS | | | | |
| POINTER (EQUIVALENT TO CASE 1) | | | | |
| ADDR1 = THE ADDRESS OF THE LAST VALID ELEMENT | | | | |
| IN THE FORWARD DIRECTION | | | | |
| ADDR2 = THE ADDRESS OF THE BACKWARD TRAILER | | | | |
| CASE NUMBER = 7 INVALID BACKWARD POINTER AND THERE IS | | | | |
| NO TRAILER IN THE BACKWARD DIRECTION | | | | |
| (EQUIVALENT TO CASE 1) | | | | |
| ADDR1 = THE ADDRESS OF THE ELEMENT IN THE | | | | |
| FORWARD THAT DOES NOT HAVE A VALID | | | | |
| PREVIOUS POINTER | | | | |
| ADDR2 = THE ADDRESS OF THE LAST VALID ELEMENT | | | | |
| IN THE FORWARD DIRECTION | | | | |
| CASE NUMBER = 8 INVALID FORWARD POINTER AND THERE IS | | | | |
| NO TRAILER IN THE BACKWARD DIRECTION | | | | |

| Len | Type | Value | Name | Description |
|--|---------|-------|----------|----------------|
| EQUIVALENT TO CASE 2 ADDR1 = THE ADDRESS OF THE ELEMENT THAT HAS AN INVALID BACKWARD POINTER ADDR2 = THE ADDRESS OF THE ELEMENT THAT POINTS TO ADDRESS ONE CASE NUMBER = 9 UNEXPECTED ERROR DETECTED AND THERE IS NO TRAILER IN THE BACKWARD DIRECTION EQUIVALENT TO CASE 3- UNEXPECTED CASE ADDR1 = THE ADDRESS OF THE ELEMENT IN THE FORWARD DIRECTION THAT DOES NOT HAVE A VALID PREVIOUS POINTER. ADDR2 = THE ADDRESS OF THE ELEMENT THAT POINTS TO ADDRESS ONE CASE NUMBER = 10 2ND ADDRESS BACK IS INVALID AND THERE'S NO TRAILER IN THE BACKWARD DIRECTION ADDR1 = THE ADDRESS OF THE ELEMENT THAT HAS AN INVALID BACKWARD POINTER ADDR2 = THE ADDRESS OF THE ELEMENT THAT POINTS TO ADDRESS ONE CASE NUMBER = 11 FORWARD IS INVALID AND THERE IS NO TRAILER IN THE BACKWARD DIRECTION ADDR1 = THE ADDRESS OF THE INVALID FORWARD ELEMENT ADDR2 = THE ADDRESS OF THE ELEMENT THAT POINTS TO ADDRESS ONE CASE NUMBER =12 NON CIRCULAR IN THE FORWARD DIRECTION AND FORWARD IS THE HEADER ADDRESS ADDR1 = THE ADDRESS OF THE HEADER ADDR2 = THE ADDRESS OF THE ELEMENT THAT POINTS TO THE HEADER | | | | |
| 1 | DECIMAL | 212 | RCVRADBL | End of Comment |
| Comment | | | | |
| RCVRASNG 213 - SINGLY THREADED QUEUE IS CIRCULAR 4 BYTES-ADDR OF PREVIOUS BLOCK PROCESSED ON QUEUE (QUEUE WAS TERMINATED HERE) 4 BYTES-ADDR OF CURRENT BLOCK BEING PROCESSED | | | | |
| 1 | DECIMAL | 213 | RCVRASNG | End of Comment |
| Comment | | | | |
| RCVRAFQE 214 - FQE OR FBQE IS NOT IN THE BOUNDS OF ITS DQE OR RD. THE FQE IS DEQUEUED. 4 BYTES-CONTROL BLOCK ID 4 BYTES-ADDR OF PREVIOUS BLOCK PROCESSED ON QUEUE 4 BYTES-ADDR OF ELEMENT WITH ERROR | | | | |
| 1 | DECIMAL | 214 | RCVRAFQE | End of Comment |
| Comment | | | | |
| RCVRAWA0 215 - POINTER TO THE VSWK IS ZERO. IF THE 4 BYTES RECORDED ARE ZERO THEN THE ADDRESS OF THE VSWK IN THE FRR PARAMETER LIST IS ZERO. THIS IS AN ERROR. IF THE 4 BYTES ARE NOT ZERO THEN IT IS THE ADDRESS OF THE VSWK IN USE AT THE TIME OF THE ERROR. THIS IS RECORDED FOR INFORMATION ONLY. 4 BYTES-ADDRESS OF VSWK | | | | |
| End of Comment | | | | |

RCWK Constants

| Len | Type | Value | Name | Description |
|--|---------|-------|----------|----------------|
| 1 | DECIMAL | 215 | RCVRAWA0 | |
| | | | | Comment |
| RCVRASCK 216 - AREA BEING VALIDATED IS IN STORAGE CHECK AREA 4 BYTES-CONTROL BLOCK ID IF KNOWN OR BLANKS 4 BYTES-ADDRESS OF AREA BEING VALIDATED 4 BYTES-LENGTH OF AREA BEING VALIDATED | | | | |
| | | | | End of Comment |
| 1 | DECIMAL | 216 | RCVRASCK | |
| | | | | Comment |
| RCVRAOVL 217 - OVERLAP DETECTED IN CONTROL BLOCK 4 BYTES-CONTROL BLOCK ID 4 BYTES-ADDRESS OF AREA 4 BYTES-LENGTH OF AREA 4 BYTES-ADDRESS OF CONTROL BLOCK | | | | |
| | | | | End of Comment |
| 1 | DECIMAL | 217 | RCVRAOVL | |
| | | | | Comment |
| RCVRVWA 218 - RECORD AS MUCH OF VSWK AS POSSIBLE X BYTES-VSWK | | | | |
| | | | | End of Comment |
| 1 | DECIMAL | 218 | RCVRVWA | |
| | | | | Comment |
| RCVRAWA1 219 - A GLOBAL VSWK IS NOT ADDRESSED BY THE GDA 4 BYTES-ADDRESS OF VSWK | | | | |
| | | | | End of Comment |
| 1 | DECIMAL | 219 | RCVRAWA1 | |
| | | | | Comment |
| RCVRAOOO 220 - ADDRESSES OF AREAS DESCRIBED BY CONSECUTIVE ELEMENTS OVERLAP OR ARE NOT IN ASCENDING ORDER. THE CONSECUTIVE ELEMENTS IN ERROR ARE DEQUEUED. 4 BYTES-CONTROL BLOCK ID 4 BYTES-ADDR OF PREVIOUS BLOCK PROCESSED ON QUEUE 4 BYTES-ADDR OF FIRST ELEMENT WITH ERROR 4 BYTES-ADDR OF SECOND ELEMENT WITH ERROR | | | | |
| | | | | End of Comment |
| 1 | DECIMAL | 220 | RCVRAOOO | |
| | | | | Comment |
| RCVRASPQ 221 - AN SPQE WAS FOUND THAT WAS NEITHER SHARED NOR OWNED. THE SPQE IS MARKED OWNED. 4 BYTES-ADDR OF SPQE WITH ERROR | | | | |
| | | | | End of Comment |
| 1 | DECIMAL | 221 | RCVRASPQ | |

| Len | Type | Value | Name | Description |
|---|---------|-------|----------|-------------|
| Comment | | | | |
| RCVRAWA2 222 - A LOCAL VSWK IS NOT ADDRESSED BY THE LDA 4 BYTES-ADDRESS OF VSWK | | | | |
| End of Comment | | | | |
| 1 | DECIMAL | 222 | RCVRAWA2 | |
| Comment | | | | |
| RCVRAWA3 223 - INVALID REQUEST TYPE IN THE VSWK. REQUEST TYPE MUST BE CSA,SQA,LSQA OR PVT. 8 BYTES-VSWKSPTT | | | | |
| End of Comment | | | | |
| 1 | DECIMAL | 223 | RCVRAWA3 | |
| Comment | | | | |
| RCVRAPVT 224 - UNEXPECTED RETURN CODE FROM IGVRSRCH 4 BYTES-CONTROL BLOCK ID 4 BYTES-ADDRESS OF AREA 4 BYTES-LENGTH OF AREA 4 BYTES-RETURN CODE FROM IGVRSRCH | | | | |
| End of Comment | | | | |
| 1 | DECIMAL | 224 | RCVRAPVT | |
| Comment | | | | |
| RCVRAADO 225 - A DFE IS FOUND WHICH IS OUT OF ADDRESS ORDER. THE DFE AND THE PREVIOUS DFE ON THE ADDRESS QUEUE ARE DEQUEUED FROM THE ADDRESS AND SIZE QUEUES. 4 BYTES-ADDR OF PREVIOUS DFE THAT REMAINS ON THE ADDRESS QUEUE 4 BYTES-PREVIOUS DFE THAT IS DEQUEUED 4 BYTES-DFE THAT IS DEQUEUED | | | | |
| End of Comment | | | | |
| 1 | DECIMAL | 225 | RCVRAADO | |
| Comment | | | | |
| RCVRAADD 226 - A DUMMY DFE IS FOUND WHICH IS OUT OF ADDRESS ORDER. THE DUMMY DFE IS ENQUEUED ON THE FRONT OF THE ADDRESS QUEUE. 4 BYTES-ADDR OF PREVIOUS DFE ON THE ADDRESS QUEUE WHERE THE DUMMY DFE WAS DEQUEUED 4 BYTES-ADDR OF DUMMY DFE | | | | |
| End of Comment | | | | |
| 1 | DECIMAL | 226 | RCVRAADD | |
| Comment | | | | |
| RCVRASZO 227 - A DFE IS FOUND WHICH IS OUT OF SIZE ORDER. THE DFE AND THE PREVIOUS DFE ON THE SIZE QUEUE ARE DEQUEUED FROM THE ADDRESS AND SIZE QUEUES. 4 BYTES-ADDR OF PREVIOUS DFE THAT REMAINS ON THE SIZE QUEUE 4 BYTES-PREVIOUS DFE THAT IS DEQUEUED 4 BYTES-DFE THAT IS DEQUEUED | | | | |
| End of Comment | | | | |
| 1 | DECIMAL | 227 | RCVRASZO | |

RCWK Constants

| Len | Type | Value | Name | Description |
|---|---------|-------|----------|-------------|
| Comment | | | | |
| RCVRADUM 228 - AN SQA DUMMY DFE HAS BEEN OVERLAID. THE DUMMY IS ENQUEUED IN THE PROPER POSITION ON THE ADDRESS AND SIZE QUEUES. 4 BYTES-ADDR OF PREVIOUS DFE ON THE SIZE QUEUE WHERE THE DUMMY DFE WAS DEQUEUED. (THIS DATA MAY BE INVALID) 4 BYTES-ADDR OF DUMMY DFE | | | | |
| End of Comment | | | | |
| 1 | DECIMAL | 228 | RCVRADUM | |
| Comment | | | | |
| RCVRADCT 229 - THE LSQA DUMMY DFE COUNT IS IN ERROR. IF POSSIBLE, THE NEEDED NUMBER OF DUMMIES ARE OBTAINED AND ENQUEUED IN THE PROPER POSITIONS ON THE ADDRESS AND SIZE QUEUES. IF THERE ARE NO CELLS AVAILABLE THEN THE ADDRESS SPACE IS TERMINATED. 4 BYTES-ADDR OF DFE QUEUE ANCHOR 4 BYTES-ACTUAL DUMMY DFE COUNT 4 BYTES-EXPECTED DFE COUNT | | | | |
| End of Comment | | | | |
| 1 | DECIMAL | 229 | RCVRADCT | |
| Comment | | | | |
| RCVRABDF 230 - A DFE THAT IS ON THE SIZE QUEUE BUT NOT ON THE ADDRESS QUEUE OVERLAPS SPACE ALREADY ON THE ADDRESS QUEUE. THE DFE IS DEQUEUED FROM THE SIZE QUEUE. 4 BYTES-ADDR PREVIOUS DFE THAT REMAINS ON THE SIZE QUEUE 4 BYTES-ADDR DFE IN ERROR | | | | |
| End of Comment | | | | |
| 1 | DECIMAL | 230 | RCVRABDF | |
| Comment | | | | |
| RCVRAAQT 231 - A DFE IS IN ERROR BECAUSE SPACE DESCRIBED BY THE DFE IS NOT PART OF L/SQA. THIS ERROR COULD BE CAUSED BY: 1) DFEAREA IS ZERO OR NEGATIVE 2) DFESIZE IS ZERO OR NEGATIVE 3) THE AREA DESCRIBED BY DFEAREA AND DFESIZE IS NOT DESCRIBED BY AQAT ALLOCATION BITS (SOME OF THE ALLOCATION BITS ARE OFF) THE DFE IS DEQUEUED FROM THE ADDRESS AND SIZE QUEUES. 4 BYTES-ADDR OF DFE IN ERROR 4 BYTES-DFEAREA 4 BYTES-DFESIZE | | | | |
| End of Comment | | | | |
| 1 | DECIMAL | 231 | RCVRAAQT | |

| Len | Type | Value | Name | Description |
|--|---------|-------|----------|-------------|
| Comment | | | | |
| RCVRADAD 232 - A DFE IS IN ERROR BECAUSE DFEAREA IS NOT ON A DOUBLEWORD BOUNDARY. THE DFE IS DEQUEUED FROM THE ADDRESS AND SIZE QUEUES. 4 BYTES-ADDR OF DFE IN ERROR 4 BYTES-DFEAREA 4 BYTES-DFESIZE | | | | |
| End of Comment | | | | |
| 1 | DECIMAL | 232 | RCVRADAD | |
| Comment | | | | |
| RCVRADSZ 233 - A DFE IS IN ERROR BECAUSE DFESIZE IS NOT A DOUBLEWORD MULTIPLE. THE DFE IS DEQUEUED FROM THE ADDRESS AND SIZE QUEUES. 4 BYTES-ADDR OF DFE IN ERROR 4 BYTES-DFEAREA 4 BYTES-DFESIZE | | | | |
| End of Comment | | | | |
| 1 | DECIMAL | 233 | RCVRADSZ | |
| Comment | | | | |
| RCVRADML 234 - AN SQA DUMMY DFE IS IN ERROR. ONE OF THE FOLLOWING HAS OCCURRED: 1) NO DUMMY DFES WHERE FOUND ON THE SIZE QUEUE. 2) THE LAST DUMMY FOUND ON THE SIZE QUEUE WAS ALSO ANCHORED IN THE SQAT. THE LAST DUMMY ON THE SIZE QUEUE SHOULD NOT BE ANCHORED IN THE SQAT. 4 BYTES-NUMBER OF DUMMY DFES FOUND ON THE SIZE QUEUE 4 BYTES-ADDR OF LAST DUMMY FOUND ON THE SIZE QUEUE (THIS DATA WILL BE INVALID IF THE NUMBER OF DFES FOUND IS ZERO) | | | | |
| End of Comment | | | | |
| 1 | DECIMAL | 234 | RCVRADML | |
| Comment | | | | |
| RCVRAEXT 235 - COUNT OF CELLPOL EXTENTS IS NOT CORRECT 4 BYTES-ADDRESS OF CELLPOL ANCHORS (VSWKCELA) 4 BYTES-ACTUAL NUMBER OF EXTENTS COUNTED BY RECOVERY 4 BYTES-EXPECTED NUMBER OF EXTENTS (VSWKPNUM) | | | | |
| End of Comment | | | | |
| 1 | DECIMAL | 235 | RCVRAEXT | |

RCWK Cross Reference

RCWK Cross Reference

| Name | Hex Offset | Hex Value |
|----------|---------------|--------------|
| RCWK | 0 | |
| RCWKABD | 7 | |
| RCWKABND | 4 | 04 |
| RCWKADDR | 0 | |
| RCWKBAC | 5 | 40 |
| RCWKBACK | 4 | 02 |
| RCWKCELL | 4 | 40 |
| RCWKCERR | 4 | 20 |
| RCWKENT | 6 | 40 |
| RCWKEPID | 18 | |
| RCWKFLG1 | 4 | |
| RCWKFLG2 | 5 | |
| RCWKFOR | 5 | 80 |
| RCWKFSP | 6 | 01 |
| RCWKGLBL | 6 | 20 |
| RCWKHEAD | C | |
| RCWKLENG | A | |
| RCWKLST | 6 | 04 |
| RCWKMADR | 14 | |
| RCWKNEXT | 20 | |
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| RCWKRET | 4 | 10 |
| RCWKRFIX | 6 | 80 |
| RCWKRPAG | 6 | 10 |
| RCWKSTAT | 6 | 08 |
| RCWKTRAL | 10 | |
| RCWKTYPE | 4 | 80 |
| RCWKVRAP | 24 | |

Appendix A. Accessibility

Accessibility features help a user who has a physical disability, such as restricted mobility or limited vision, to use software products successfully. The major accessibility features in z/OS enable users to:

- Use assistive technologies such as screen-readers and screen magnifier software
- Operate specific or equivalent features using only the keyboard
- Customize display attributes such as color, contrast, and font size.

Using assistive technologies

Assistive technology products, such as screen-readers, function with the user interfaces found in z/OS. Consult the assistive technology documentation for specific information when using it to access z/OS interfaces.

Keyboard navigation of the user interface

Users can access z/OS user interfaces using TSO/E or ISPF. Refer to *z/OS TSO/E Primer* *z/OS TSO/E User's Guide* and *z/OS ISPF User's Guide Volume I* for information about accessing TSO/E and ISPF interfaces. These guides describe how to use TSO/E and ISPF, including the use of keyboard shortcuts or function keys (PF keys). Each guide includes the default settings for the PF keys and explains how to modify their functions.

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Programming Interface Information

This book primarily documents information that is NOT intended to be used as Programming Interfaces of z/OS.

This book also documents intended Programming Interfaces that allow the customer to write programs to obtain the services of z/OS.

This information is identified where it occurs, either by an introductory statement to a chapter or section or by the following marking:

_____ Programming Interface information _____
_____ End of Programming Interface information _____

Unless otherwise specified, for data areas classified as programming interfaces, the **MACRO ID** and **DSECT NAME(S)** in the header are part of the programming interface. **ALL** other header information is included for diagnostic purposes **ONLY**.

Since a *data area name* that is designated as part of the programming interface is one of the following:

- MACRO ID
- DSECT NAME
- commonly-used name

before including the *data area name* in a program, refer to the data area header for the applicable **MACRO ID**.

If only certain fields in a data area are intended or not intended for use as a programming interface, the specific field name(s) are differentiated within this book.

For data areas classified as programming interfaces, “RESERVED FOR USER” fields are part of the interface; all other “**RESERVED ...**” fields are **NOT** part of the interface.

For a field that is part of the programming interface, the only information that is part of the interface for writing programs is:

- field name
- data type
- field length
- description (purpose or allowed values)

INCLUDE ONLY data area: **ONLY** the MACRO ID is the programming interface. The DSECT NAME, constants, and data area itself are **NOT** part of the programming interface.

TOKEN ONLY data area: **ONLY** the address of the data area is a programming interface. The DSECT NAME, constants, and data area itself are **NOT** part of the programming interface.

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- DFSMS/MVS
- DFSMSdfp
- DFSMSdss
- DFSMSHsm
- DFSMSrmm
- DFSORT
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- MVS
- MVS/ESA
- MVS/SP
- MVS/XA
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- PSF
- RACF
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- RMF
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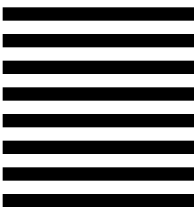
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